

# CANADIAN INDUSTRY IN 1871

Ontario County Series #17

## LINCOLN COUNTY INDUSTRIES, 1871 INDEX TO MANUSCRIPT CENSUS

G.T. Bloomfield & Elizabeth Bloomfield

G.T. Bloomfield, series editor

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**Cover Illustration** (selected and described by G.T. Bloomfield)

The view of Whitevale, Township of Pickering, was chosen to illustrate Canadian industry in 1871. At this time, a high proportion of manufacturing activity was still located in small settlements, some of which were growing rapidly into towns. **Lovell's Directory** (1871) described Whitevale as:

A thriving village...[with] extensive flouring and woollen mills... Montreal Telegraph Co has an office here. Distant from Whitby, the county town, and a station of the Grand Trunk Railway, 13 miles. Mail daily. Population about 250.

Truman P. White has acquired the water rights at Majorville on Duffin's Creek in 1845 and developed a grist mill, a saw mill and, later, a woollen mill. By 1871 the census enumerated six significant industrial establishments employing 66 workers and with a total value of production amounting to \$125,000. The transition from waterwheels (70 horsepower) to steam engines (66 horsepower) was already apparent in the village by this date. In common with its counterparts across the country, Whitevale's basic industrial activities were closely associated with the local agricultural area. There was also considerable economic integration apparent in the ownership of several establishments by Truman P. White and in the making of staves in the sawmill for the cooper shop which in turn supplied the flour mill with basic containers for transporting the flour to market.

Unlike many of its contemporaries, Whitevale has remained about the same size ever since 1871. The 1971 census recorded a population of only 273 in the unincorporated settlement. Whitevale never achieved connection by railway, county road or provincial highway. Much of the surrounding land was acquired for the planned Pickering airport and new town in 1972/3 and today the settlement is threatened by the creation of a municipal solid waste dump for Metropolitan Toronto and the Durham Region.

The illustration was first published in the **Illustrated Historical Atlas of the County of Ontario** (Toronto: J.H. Bees and Co., 1877), reprinted Ross Cumming, 1972).

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Ontario County Series #17

**LINCOLN COUNTY INDUSTRIES, 1871  
INDEX TO MANUSCRIPT CENSUS**

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Department of Geography

University of Guelph

1991

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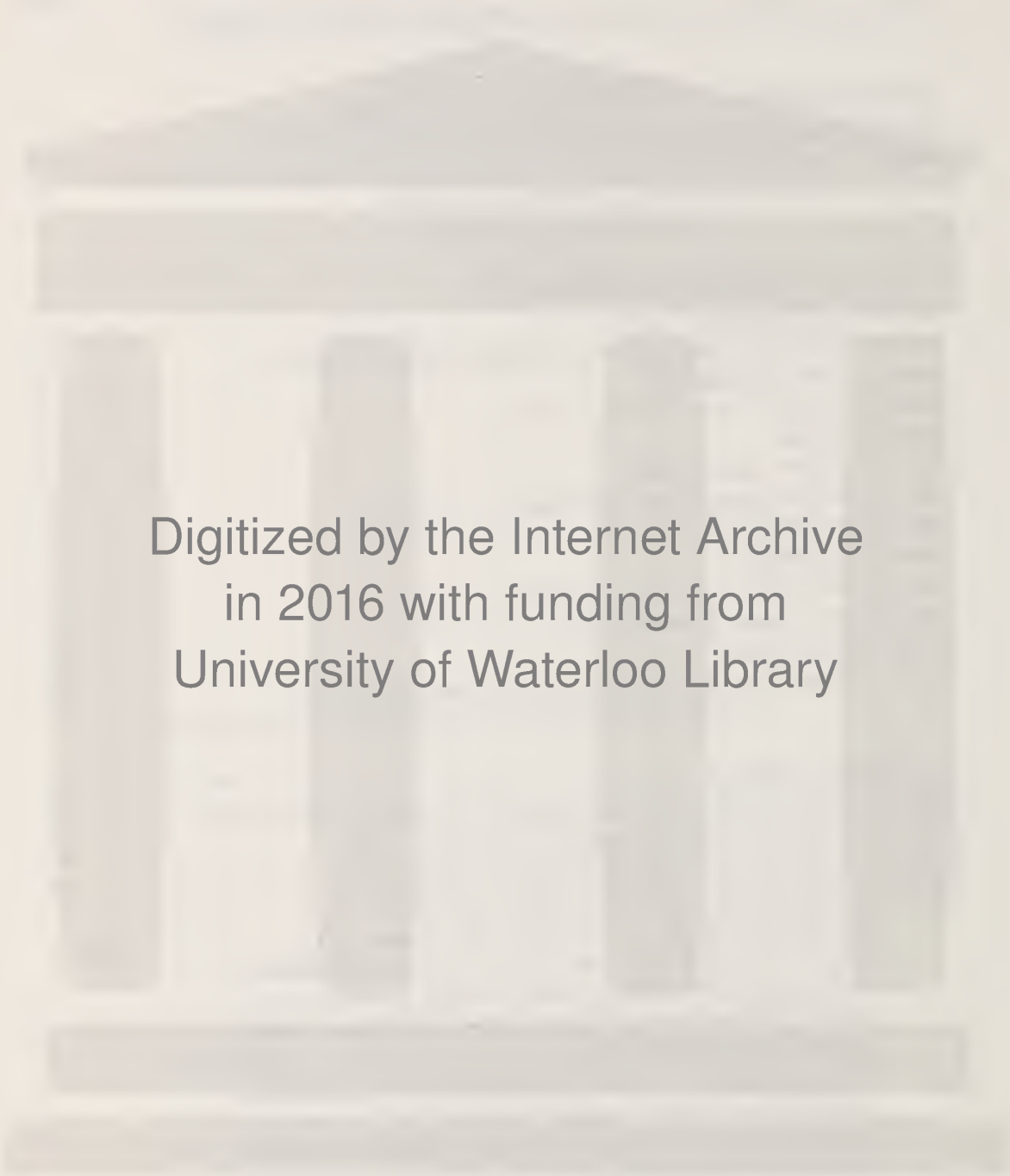
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## CANADIAN INDUSTRY IN 1871: ONTARIO COUNTY SERIES

The first Census of Canada was taken at a time when the "hum of industry" was believed to be an essential sign of a community's progress, usually associated with the benefits of railway connections. Many people at this time seem to have shared Thomas Keefer's vision of "the civilizing tendency of the locomotive":

A town has been built and peopled by the operatives -- land rises rapidly in value -- the neglected swamp is cleared and the timber is converted into all sorts of wooden "notions" -- tons of vegetables, grains or grasses are grown where none grew before -- the patient click of the loom, the busy hum of the spindle, the thundering of the trip-hammer and the roaring of steam, are mingled in one continuous sound of active industry.<sup>1</sup>

The CANIND71 database created from the manuscript census schedules of industrial establishments is used in this series to provide snapshots of industrial activity in Ontario just after Confederation, at a time of transition in technology, business organization and work discipline. The 36 Ontario counties varied in the amount and intensity of "active industry", depending on how long they had been settled, how much of their population lived in cities and towns, and how well connected they were by rail or water transport.

One title in the CANIND71 series of research reports has already examined the mix of industrial activity in Wellington County, Ontario, as a model for what might be done for any other place of similar size and population in Ontario, Quebec, New Brunswick or Nova Scotia.<sup>2</sup>

The reports in the Ontario County Series have less detailed description and analysis than the study of Wellington County and more tabulations of data compiled out of the CANIND71 database. The reports follow a similar format. First, features of the CANIND71 database, especially its geographical organization and industrial classification, are explained so that readers can understand tables for particular counties. Each county is defined and factors in its history, location and resources that influenced the amount and character of industry by 1870-1 are noted. Then the structure and characteristics of industry in that county are summarized under the headings of location and distribution, industry types, size structure of industrial units, use of water and steam power, workplace types, and leading firms. The appendices present aggregate data grouped by geographical location, industry classifications and specific industry types. Summary data for individual establishments are then listed for the whole county, alphabetically by the proprietor's name, with additional lists for establishments in each city, town or village.

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<sup>1</sup> T.C. Keefer, Philosophy of Railroads (1850), edited with an introduction by H.V. Nelles (Toronto: University of Toronto Press, 1972), p. 9.

<sup>2</sup> Elizabeth Bloomfield and G.T. Bloomfield, The Hum of Industry: Millers, Manufacturers and Artisans of Wellington County CANIND71 Research Report 9 (Guelph: University of Guelph, Department of Geography, 1989).



## CANADIAN INDUSTRY IN 1871: ONTARIO COUNTY SERIES

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- 0-88955-264-9 Lincoln County Industries, 1871: Index to Manuscript Census (#17 in series)
- 0-88955-265-7 Middlesex County Industries, 1871: Index to Manuscript Census (#18 in series)
- 0-88955-266-5 Norfolk County Industries, 1871: Index to Manuscript Census (#19 in series)
- 0-88955-267-3 Northumberland & Durham County Industries, 1871: Index to Manuscript Census (#20 in series)
- 0-88955-268-1 Ontario County Industries, 1871: Index to Manuscript Census (#21 in series)
- 0-88955-269-X Oxford County Industries, 1871: Index to Manuscript Census (#22 in series)
- 0-88955-270-3 Peel County Industries, 1871: Index to Manuscript Census (#23 in series)
- 0-88955-271-1 Perth County Industries, 1871: Index to Manuscript Census (#24 in series)
- 0-88955-272-X Peterborough County Industries, 1871: Index to Manuscript Census (#25 in series)
- 0-88955-273-8 Prescott & Russell County Industries, 1871: Index to Manuscript Census (#26 in series)
- 0-88955-274-6 Prince Edward County Industries, 1871: Index to Manuscript Census (#27 in series)
- 0-88955-275-4 Renfrew County Industries, 1871: Index to Manuscript Census (#28 in series)
- 0-88955-276-2 Simcoe County Industries, 1871: Index to Manuscript Census (#29 in series)
- 0-88955-277-0 Stormont, Dundas & Glengarry County Industries, 1871: Index to Manuscript Census (#30 in series)
- 0-88955-278-9 Victoria County Industries, 1871: Index to Manuscript Census (#31 in series)
- 0-88955-279-7 Waterloo County Industries, 1871: Index to Manuscript Census (#32 in series)
- 0-88955-280-0 Welland County Industries, 1871: Index to Manuscript Census (#33 in series)
- 0-88955-281-9 Wentworth County Industries, 1871: Index to Manuscript Census (#34 in series)
- 0-88955-282-7 York County Industries, 1871: Index to Manuscript Census (#35 in series)
- 0-88955-283-5 Northern Districts Industries, 1871: Index to Manuscript Census (#36 in series)



## INTRODUCTION TO THE CANIND71 DATABASE

The CANIND71 database is a machine-readable version of the original manuscript information for more than 45,000 industrial establishments counted in the first Census of Canada in 1871. This new source provides a wealth of information for the four provinces enumerated in 1871 -- New Brunswick, Nova Scotia, Ontario and Quebec. The 1871 census was the first to be taken on a consistent basis for the four provinces. Although similar information was collected in the Canadian censuses of 1881, 1891, 1901 and 1911, the manuscript schedules for industry have not survived. The 1871 census manuscripts are thus the only systematic source for industrial activity that survives in such detail from the nineteenth century. Moreover, the 1871 schedules contain a great deal of information that was never published at the time.

In using the CANIND71 data, we should understand the definitions and procedures used by the 1871 census enumerators:<sup>3</sup>

- \* Industrial businesses found by the census enumerators as they made their rounds in early April 1871 were included, and details were recorded of their operations during the preceding twelve months.

- \* An industrial establishment was defined as "a place where one or several people are employed in manufacturing, altering, making up or changing from one shape into another, materials for sale, use or consumption, quite irrespectively of the amount of capital employed or of the products turned out" (p. 138). No minimum value of output was set, in contrast to the United States censuses in the same period, for which only establishments with at least \$500 worth were included.

- \* All repairs, mending or custom work were understood to be industrial products. Thus the definition of industrial activity was considerably broader than it would be in the twentieth century.

- \* Numbers of workers or "employés" were defined to be the average number of persons actually working in the industrial establishment during the 12-month reporting period, and could consist entirely of members of the proprietor's family. The industrial workforce was subdivided by age and gender into men, women, boys (males under 16 years) and girls (females under 16 years), but the amount of wages paid to each age-gender group of worker was not separately stated.

- \* Industrial establishments were recorded in the geographical units -- District, Sub-District or Division -- in which they were found "and nowhere else. The principle is essential in every case. The production is attached to the locality" (p. 139).

- \* In reporting custom work such as tailoring or work done on toll such as that of some grist mills or carding mills, enumerators were told to state the real value of raw materials, even if these amounts did not pass through the accounts of the proprietor.

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<sup>3</sup> "Manual Containing the Census Act and Instructions to Officers Employed in Taking of the First Census of Canada, 1871," Canada Sessional Papers No. 64 (1871). Quotations are from this source.

\* Though enumerators could specify the types, quantities and values of individual raw materials and products for each establishment, it was foreseen that in most cases only the aggregate dollar values or raw materials and products would be stated.

\* Values of fixed capital and floating capital invested in the industrial business were distinguished rather than merged, and the number of working months was specified.

Only a very limited amount of the information collected in Schedule 6 of the 1871 census was published in the official census volumes of the 1870s.<sup>4</sup> The statistical tables published at the time used various industrial types that were defined pragmatically rather than systematically, and then listed in alphabetical order. For each industry type, whether as specialized as whip making or as ubiquitous as blacksmithing, figures were published for numbers of establishments, hands employed, yearly wages, value of raw materials and value of products in each of 206 Census Districts.

No industrial data at all were published for smaller areal units such as the Census Sub-Districts, either as summaries of total industrial activity or for specific types of industry. Thus the only 1871 industrial information published for urban centres was for the six cities, the boundaries of which exactly coincided with those of one or more Census Districts. These were Montreal, Toronto, Hamilton, Ottawa, London and Kingston. Some information collected by the enumerators was never compiled into published tables, notably for types and horse-power units of inanimate power, months of operation during the reporting period, and "floating" capital distinguished from "fixed" capital. The published totals also understated the real extent and value of industrial activity as these can now be reconstituted from the manuscript census schedules.<sup>5</sup>

### Database Variables

The CANIND71 database has made machine-readable information about all the industrial firms counted in Canada's first national census. For each establishment, there are up to 125 variables. The firms were located in 206 Census Districts and over 1600 Census Sub-Districts in Ontario, Quebec, New Brunswick and Nova Scotia. All details recorded by the enumerators on the manuscript census schedules have been included as basic variables in the CANIND71 database. These are: name of proprietor, kind of industrial business, geographical location, use of non-manual forms of power, numbers of workers (distinguished into men, women, boys and girls), number of working months in the year, and the dollar amounts of fixed and floating capital invested, wages, raw materials and products, as well as kinds, quantities, units of measurement and values of individual raw materials and products, and additional remarks or comments.

In addition to the information transcribed from the census manuscripts, the CANIND71 database contains several variables derived by calculation or inference from the basic variables. These include the total values of raw materials or of products

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<sup>4</sup> Census of Canada 1871, volume III, Tables 28-55.

<sup>5</sup> For a more detailed discussion of the 1871 Census procedures and a comparison of the published and manuscript data for industry in 1871, see Creating CANIND71: Procedures for Making the 1871 Census Machine-Readable (Research Report 4, 1989).



(when only details for component products or materials had been stated on the manuscript schedules), the value added (gross value of output less costs of raw materials when both these figures were reported), the total number of employees, and the average monthly wage per employee.

### **Geographical Organization**

The original descriptions of geographical areas defined for the 1871 Census were researched to ensure that the codes and place names were entered accurately and consistently into the database. For ease in returning to the original schedules, we adopted the same code letters and numbers that were used in 1871 to describe the Census Districts, Census Sub-Districts and Census Enumerators' Divisions. The 206 Census Districts were intended to correspond with the Electoral Districts defined under the British North America Act 1867.<sup>6</sup> Census Districts were divided into 1,701 Census Sub-Districts, which were intended to correspond with Municipal or other recognized divisions -- towns, villages, townships or city wards in Ontario, for example. The Census Sub-Districts were subdivided into nearly 3,000 Census Enumerators' Divisions, but these were defined for convenience of census-taking rather than to coincide with any other system of defining areas and no maps or written descriptions of these units have survived.<sup>7</sup>

Details of Census District name (with variable name CDISTRIC) and number (CDID), Census Sub-District name (CSD) and Census Enumerator's Division (CED) were coded for each manuscript record as it was entered into the CANIND71 database. Usually this information was written by the census enumerators on the manuscript schedules. But we had to standardize the names and codes for computer processing. We numbered the Census Districts in the same sequence from 001: Essex in southwest Ontario to 206: Richmond, Nova Scotia. Census district numbers in Ontario were prefaced with the letter O. We also adopted the same code letters and numbers that were used to describe the smaller Census Sub-Districts and Census Enumerators' Divisions in 1871. Municipal status was abbreviated as V-Village, T-Town (or Ville), C-City and Tp-Township. In the case of CSDs with the same principal name, they are distinguished by the directional abbreviations following the place name, such as N for North or Nord, S for South or Sud, E for East or Est, W for West.

### **Industrial Classification**

The census enumerators used natural language to describe the kinds of establishment and industrial raw materials and products they encountered.<sup>8</sup> In creating the CANIND71 database, we entered the enumerators' words into the computer record, but we also assigned standardized codes to each record to denote industry types and major groups more precisely and consistently. These codes are vital for analysis of the data.

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<sup>6</sup> Statutes of Canada, 33 Vict. 1870, Cap. 21, s. 4.

<sup>7</sup> See G.T. Bloomfield, Boundaries of Canadian Census Units in 1871 (CANIND71 Research Report 10, 1990).

<sup>8</sup> See Glossary of Industrial Language (CANIND71 Research Report 5, 1989) and French-English Dictionary of Industrial Language (CANIND71 Research Report 6, 1989).



Each record in the CANIND71 database has been assigned a code according to the 1970 Standard Industrial Classification Manual of the Canada Dominion Bureau of Statistics.<sup>9</sup> Understandably, there were some problems in applying a 1970 classification to the conditions of a century earlier. Changes in technology have eliminated some industry types that were common in 1871. The more rudimentary level of economic and business organization in 1871 meant that many enterprises combined industrial activities that would typically be separated in specialized businesses by 1970. Repair of all kinds of goods and equipment was more integrally associated with manufacture in 1871.

The appropriate SIC code for each record was determined by study of both the stated kind of establishment and the actual products and raw materials reported in each case. Wherever possible, we chose the SIC code that best matched the actual outputs of the business as reported for the year ending March 31, 1871. The "kind of establishment" information alone could be quite misleading, as this term was sometimes an occupational label that did not really describe the actual products. For example, a business might be described very generally as a "foundry", which would rate a code of "294" only if its products were primarily iron castings. More typically, the products of so-called foundries in 1871 were fabricated metal products such as stoves (307-S) or general machinery (315) or agricultural implements (311). In another example, one who was by trade a blacksmith and so recorded in the "kind of establishment" column may have had opportunities to make all kinds of metal goods, often including carriages and wagons. If he made definite numbers of carriages or other items of transportation equipment, his business would be assigned the appropriate and more specific SIC code of "329" rather than "896" which would be assigned for a blacksmith engaged only in "country work and repairs".

We adapted the 1970 system to the 1871 context in two main ways. First, suffixes of hyphen and capital letter could be added to the basic 3-digit code to give greater specificity, a brewery (109-B) being distinguished from a distillery (109-D) for example. Second, an establishment that combined two or more products or services was given a compound SIC code, consisting of the two most important linked by a slash (/), so that a flour mill-cum-distillery is represented as "105/109-D".

These elaborations of the basic classification system resulted in a total list of over 700 specific codes that were used to describe the 45,070 firms in the four provinces in 1871. A few of these codes were shared by large numbers of establishments. Thus 5,254 blacksmiths were assigned the SIC code of "896", 5,088 saw mills had the basic code of "251", and 4,189 shoemakers were coded "174". Some 2,830 handloom weavers were given the code "182-W", 2,527 carriage and wagon makers were coded "329", and 2,098 flour mills share the code "105". Basic SIC codes assigned to at least 50 industrial establishments throughout Canada are listed in Table 1. At the other extreme, some significant enterprises had codes that were unique for Canada.

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<sup>9</sup> For a more detailed discussion of our use of SIC codes, see G.T. Bloomfield, Standard Industrial Classifications Applied to Historical Data (CANIND71 Research Report 7, 1989). The CANIND71 classification is based on Dominion Bureau of Statistics, Standard Industrial Classification Manual (Ottawa, 1970); for French-language equivalents we consulted Statistique Canada, Classification type des industries (Ottawa, 1990).

Table 1

**STANDARD INDUSTRIAL CLASSIFICATION (1970) ADAPTED FOR 1871:**  
**short list of codes with at least 50 occurrences in CANIND71 database**

101-P	Pork Curing/Packing	Salaizon de porc
102	Fish Curing	Salaizon de poisson
104	Cheese Factories	Fromageries
105	Flour/Grist Mill	Farine, Moulin à
105-O	Oatmeal Mill	Avoine, Moulin d'
107	Bakeries	Boulangeries
108-C	Confectionery	Confiserie
109-B	Brewery	Brasserie
109-S	Aerated Water	Eaux gazeuses
153	Tobacco Working	Tabac, Manufacture d
172	Tanneries	Tanneries
174	Boots/Shoes	Bottes/Souliers
179-S	Saddle/Harness Making	Selles]
182	Woolen Cloth Factories	Drap, Fabriques de
182-W	Weaver	Tisserand
189-W	Carding/Fulling Mills	Carder/fouler, Moulins à
239-K	Stockings/Mittens/Hand Knitter	Bas/Mitaines/Tricoteur
242	Clothing	Habillements
243	Tailors/Clothiers	Habillements pour hommes
246	Furrier/Hatter	Pelleterie/Chapellerie
249-M	Milliner	Modiste
251	Saw Mill	Moulin à scie
251-S	Shingle Making	Bardeaux, Confection de
254	Sashes/Doors/Blinds	Portes/Fenêtres
256	Basket Making	Vanneries
259	Wood Products, Misc	Produits de bois, divers
259-C	Cooperage	Tonnellerie
259-W	Wood Turning Establishments	Tours à bois
261	Cabinets/Furniture	Meublerie
286	Printing office	Imprimerie
287-B	Book Binding	Reliure
289	Printing/Publishing incl newspapers	Imprimerie/Publication de
294	Foundry/Castings	Fonderie/Fonte
304-T	Tinsmith	Ferblantier
306	Agricultural Hand Tools	Outils agricoles manuels
306-T	Axes	Haches
307-S	Stoves	Poêles
309	Metal Fabricating, Misc	Fabrication de métaux
311	Agricultural Implements	Instruments aratoires
315	Machinery, Misc	Machinerie/Équipement
315-H	Spinning Wheels	Rouets
315-P	Pumps	Pompes
327	Ship Yards	Navires, Construction de
327-M	Ship Material	Appareux de navire
328	Boat Building	Chaloupes, Construction
329	Carriage Making	Carrosserie
329-P	Wheels (* and other parts)	Roues
351-B	Brick/Tile Making	Briqueterie/Tuilerie
351-P	Pottery	Poterie
353	Stone/Marble Establishments	Marbrerie
358-L	Lime Kilns	Fours à chaux
365	Oil Refineries	Épuration de l'huile
374	Drugs	Drogues
376	Soap/Candle Making	Savonneries/Chandelleries
378-P	Pot/Pearl Asheries	Potasseries
392	Jeweler/Watchmaker	Bijoutier/Horloger
421-C	Carpenter/Joiner (buildings)	Charpentier (bâtiments)
421-D	Painter/Glazier	Peintre en bâtiments
893	Photographic galleries	Photographies
896	Blacksmithing	Forges



The SIC codes were generalized into the 26 Major Industry Groups (or SECs) that were also coded for each record (Table 2). This table also reflects the inclusion by the 1871 census enumerators of a wider range of industrial activities and processes than would be defined as manufacturing industry today. Eighty-six per cent of the establishments are classified in the Major Group 5 for Manufacturing Industry, with SIC codes between 101 and 399, accounting for 95 per cent of the total value of industrial output in 1871.

Table 2  
**STANDARD INDUSTRIAL CLASSIFICATION:  
MAJOR GROUPS AND SIC CODES**

<b>Major Group SEC</b>	<b>SIC codes</b>
Division 1 Agricultural Services	021-029
Division 2 Forestry	031-039
Division 3 Fishing	041-049
Division 4 Mines, Salt Wells etc	051-099
<b>Division 5 Manufacturing Industries</b>	
5.01 Food and Beverages	101-109
5.02 Tobacco Products	151-159
5.04 Leather Industries	171-179
5.05 Textile Industries	181-189
5.06 Knitting Mills	231-239
5.07 Clothing Industries	241-249
5.08 Wood Industries	251-259
5.09 Furniture Industries	261-269
5.10 Paper Industries	271-279
5.11 Printing and Publishing	281-289
5.12 Primary Metal Industries	291-299
5.13 Metal Fabricating	301-309
5.14 Machinery Industries	311-319
5.15 Transportation Equipment	321-329
5.17 Non-metallic Minerals	351-359
5.18 Petroleum & Coal Products	361-369
5.19 Chemical Industries	371-379
5.20 Miscellaneous Manufactg	391-399
Division 6 Construction Industry	401-499
Division 7 Gas and Water Utilities	572-579
Division 8 Trade (incl repair)	601-699
Division 10 Personal/business services	861-899

Using the SIC and geographical codes, data for individual establishments can be aggregated in all sorts of ways. In the sample records and tables presented in this report, we use the same variable names as in the CANIND71 database. They are explained in Table 3.



Table 3  
VARIABLE NAMES IN CANIND71 DATABASE

Abbreviated code names for variables in the CANIND71 database are used in various tables in this report. A brief explanation of each code name follows:

AVWAGE:	Average monthly wage per worker in a firm, place or type of industry.
CDID:	Census district number used in 1871 census.
CDISTRIC:	Census district name used in 1871 census.
CED:	Census enumerator's division, a small part of a census district.
COMMENTS:	Additional remarks or comments for a firm entered in manuscript schedule.
EMPBOY:	Boys (males under 16 years) employed in industrial activity.
EMPGIRL:	Girls employed (females under 16 years) in industrial activity.
EMPMEN:	Men (males over 16 years) employed in industrial activity.
EMPWOM:	Women (females over 16 years) employed in industrial activity.
FIXCAP:	Value of fixed capital reported by proprietors.
FLOCAP:	Value of floating or working capital reported by proprietors.
FORCE:	Units (in "horse power" equivalents) of non-manual power reported by proprietors.
MONTH:	Number of working months in year.
OBSERV:	Observation, unit or record in a database; in the case of CANIND71 means individual industrial establishment.
PROD1:	Named type of product, first to Nth, as numbered.
PROPRIOR:	Name of proprietor as stated in census schedules.
PQUANT1:	Quantity of named product, first to Nth, as numbered.
PUNIT1:	Unit of measurement of named product, first to Nth, as numbered.
PVALUE1:	Value of named product, first to Nth, as numbered.
RAWMAT1:	Named type of raw material, first to Nth, as numbered.
RQUANT1:	Quantity of named raw material, first to Nth, as numbered.
RUNIT1:	Unit of measurement of named raw material, first to Nth, as numbered.
RVALUE1:	Value of named raw material, first to Nth, as numbered.
SEC:	Major industry group, derived from combinations of SIC codes.
SIC:	Standard Industrial Classification.
SUMPROC:	Value of industrial production (\$).
SUMRAWC:	Value of raw materials used in industry (\$).
TOTEMP:	Total number of employees, the sum of EMPMEN, EMPWOM, EMPBOY and EMPGIRL.
TYPEEST:	Type of establishment as stated by enumerator in census schedules.
TYPEPOW:	Type of power reported: steam, water, horse, W/S (water/steam).
VADD:	Value added in manufacturing (\$) = production \$ - raw materials \$.
WAGES:	Wages paid to industrial workers (\$).

## ACKNOWLEDGEMENTS

Between 1982 and 1990, the CANIND71 Project based in the Department of Geography of the University of Guelph, computerized the full data for some 45,000 industrial establishments that were enumerated in Canada's first national census in 1871. We appreciate the shelter and support provided to the project by the Department of Geography. Creation and documentation of the CANIND71 database were substantially assisted by several grants from the Social Sciences and Humanities Research Council of Canada between 1985 and 1989. The most substantial of these were Grants 482-87-0010 and 482-88-0010 to Elizabeth Bloomfield as principal investigator. In a new phase of the project, computer method, led by Gerald Bloomfield and supported by SSHRCC funds, computer methods of mapping the historical data are being developed.

The interest and support of all who have assisted with this project are gratefully acknowledged. Janine Grant, Barbara Sibley, Jane Turner, Jane Darch and Stephen Bellinger worked for the project for significant periods, and the quality of the final database owes much to their careful and thorough work. Peter McCaskell, first as programmer-analyst in the Department of Geography and then from the University's Computing Services, played an essential role in database management and programming through all phases of the project. Mario Finoro, chief technician of the Department of Geography, has assisted in the acquisition, setting up and maintenance of the equipment. The computer maps in this series are the work of Larry Laliberté, while the graphs of industrial structure were produced in final form by Marie Puddister.

Elizabeth and Gerald Bloomfield



## LINCOLN COUNTY INDUSTRIES, 1871

Settled since the 1790s, Lincoln County was part of the most maturely developed zone of southern Ontario by 1871. Of its total population of just under 30,000, one in three lived in the towns of St Catharines and Niagara (formerly the colonial capital of Newark) or the village of Port Dalhousie. The seven rural townships were settled at quite high densities compared with more recently developed parts of southern Ontario.

Lincoln County was also more highly industrialized than most other parts of the province. The mean value of industrial production per capita (\$133.45) was nearly twice the mean for Ontario (\$74.00). The average number of employees per industrial establishment was 6.1 in Lincoln compared with 4.4 in Ontario as a whole, and the mean value of output per establishment was also significantly higher -- \$8,743. compared with \$5,516. Two factors stimulated more intensive industrialization in Lincoln County -- the traffic attracted by the Welland Canal, railways and the international border, and the water-power generated as part of the canal operations.<sup>10</sup>

### Census and Municipal Units

Census Districts were defined to match federal electoral districts rather than counties in 1871. However, the component Sub-Districts matched the smaller municipal units of townships, towns, villages or city wards. Lincoln County was divided among the three Census Districts of Monck (Caistor and Gainsborough Townships), Niagara (the Town and Township of Niagara), and Lincoln (Clinton, Grimsby, Grantham and Louth Townships, the Town of St Catharines and the Village of Port Dalhousie).

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<sup>10</sup> A full bibliography of the historical development of industry in each community cannot be given here, but items in the following list consider industry historically among other topics in the county as a whole or in specific towns or villages:

Jackson, John N., St Catharines: the Contribution of the City to Two Hundred Years of Ontario Life (St Catharines: Historical Society of St Catharines, 1984).

Jones, Vernon C., ed., St Catharines Centennial History (St Catharines: Advance Printing, 1967).

Powell, R. Janet and Barbara F. Coffman, eds., Lincoln County, 1856-1956 (St Catharines: Lincoln County Council, 1956).

Rannie, William F., Lincoln: the Story of an Ontario Town (Lincoln: The Author, 1974), mentions the enterprises of George Ball at Ball's Falls and of Alanson Harris at Beamsville in a history of the municipality formed in 1970 out of the former Clinton Township and about half of the former Louth Township.

Taylor, Robert R., "Merritton, Ontario: The Rise and Decline of an Industrial Corridor, ca. 1845-1939," Scientia Canadensis 14, 1-2 (1990): 90-130.

The information contained in this report about proprietors of industrial establishments in 1871 may be related to the valuable index of all household heads provided in Index to the 1871 Census of Ontario: Lincoln-Welland-Niagara (Toronto: Ontario Genealogical Society, 1987).



The Census Sub-Districts of Lincoln County are shown in Figure 1 and their basic statistics of area (sq mls), population (pop), industrial establishments (est) and industrial employees (empl) are set out in Table 4.

Table 4  
LINCOLN COUNTY: CENSUS DISTRICTS AND SUB-DISTRICTS, 1871

			sq mls	pop	est	empl
** CENSUS DISTRICT 18 (part of MONCK)						
0018	D	CAISTOR TOWNSHIP	54.81	2166	20	35
0018	E	GAINSBOROUGH TOWNSHIP	60.56	3016	16	39
** CENSUS DISTRICT 20 NIAGARA						
0020	A	NIAGARA TOWNSHIP	36.91	2093	17	20
0020	B	NIAGARA TOWN: WEST WARD	0.47	511	4	12
0020	C	NIAGARA TOWN: CENTRE WARD	0.47	530	12	32
0020	D	NIAGARA TOWN: EAST WARD	0.47	559	0	0
** CENSUS DISTRICT 21 LINCOLN						
0021	A	GRANTHAM TOWNSHIP	34.95	3929	35	578
0021	B	ST CATHARINES TOWN	1.93	7864	158	1408
0021	C	PORT DALHOUSIE VILLAGE	0.63	1081	20	143
0021	D	LOUTH TOWNSHIP	31.77	1893	48	93
0021	E	CLINTON TOWNSHIP	40.85	2782	76	215
0021	F	GRIMSBY TOWNSHIP	57.84	3123	45	165

While the largest industrial enterprises were usually located in incorporated towns and villages, industry was also dispersed in smaller central places scattered through the rural areas. The census manuscript schedules do not specify location in such smaller, unincorporated centres but it can be useful when comparing the census data with information from other sources to know which hamlets and villages were included in particular Census Sub-Districts (Table 5).<sup>11</sup>

### Location and Distribution

Industrial activity was highly concentrated in and around the county town of St Catharines, which accounted for over half Lincoln County's industrial workers and 65 per cent of its gross value of industrial production. Of the town's total population of 7,864 in 1871, 1,408 or nearly one fifth were employed in industrial mills, factories or workshops. Grantham Township, surrounding St Catharines and including the unincorporated factory village of Merritton, had 578 industrial workers while Port Dalhousie, an incorporated village five kilometres from St Catharines on Lake Ontario, had 143 industrial employees. The three CSDs together accounted for nearly 78 per cent of all industrial employees and over 87 per cent of the total value of production in Lincoln County. They also recorded 65 per cent of the developed water and steam power in the county.

<sup>11</sup> For a more detailed discussion of the location of smaller villages and hamlets in relation to the 1871 Census units, see G.T. Bloomfield, Ontario Central Places in 1871: A Gazetteer Compiled from Contemporary Sources (CANIND71 Research Report 13, 1990).

Table 5: LINCOLN COUNTY: CENTRAL PLACES, 1871

<u>Place</u>	<u>Population</u>	<u>Township</u>	<u>CSD</u>	<u>Sources</u>	<u>Lat.</u>	<u>Long.</u>
ABINGDON	250	Caistor	18D	D L P	43 05	79 41
ATTERCLIFFE	10	Caistor	18D	D L P	42 59	79 36
<i>post office formerly Caistor</i> BEAMSVILLE	1000	Clinton Tp	21E	D L B	43 10	79 29
CAISTORVILLE	100	Caistor	18D	D L M	43 03	79 44
CAMPDEN	90	Clinton Tp	21E	L P	43 08	79 26
<i>formerly Moyer's Corners</i> FULTON	150	Grimsby Tp	21F	L P	43 08	79 40
<i>on boundary with Caistor Tp</i> GRIMSBY	800	Grimsby Tp	21F	D L B	43 08	79 35
HOMER	150	Grantham	21A	D L P	43 10	79 11
<i>formerly Ten (C2), Ten Mile Creek (C), Upper Ten (C2)</i> JORDAN	200	Louth	21D	D L P	43 09	79 23
<i>formerly St Mary's</i> JORDAN STATION	160	Louth	21D	L	43 10	79 22
<i>also known as Bridgeport</i> MERRITTON	1000	Grantham	21A	D L P	43 08	79 13
<i>formerly Centreville; post office formerly Thorold Station</i> NIAGARA	1600	Niagara T	20	D L B	43 15	79 04
<i>formerly Lennox (C2), Newark; later Niagara-on-the-Lake</i> PELHAM UNION	30	Clinton Tp	21E	L P	43 05	79 23
<i>on boundary with Pelham Tp, Welland Co</i> PORT DALHOUSIE	1081	Port Dalhousie V	21C	D L B	43 12	79 16
QUEENSTON	350	Niagara Tp	20A	D L P	43 10	79 03
REYNOLDSVILLE	60	Grantham	21A	L	43 07	79 16
<i>formerly Crown's Mills (L)</i> ROSENE	100	Gainsborough	18E	L P	43 04	79 25
<i>formerly Vienna</i> SMITHVILLE 1	350	Grimsby Tp	21F	D L M	43 06	79 33
<i>formerly Griffintown (C)</i> ST ANNS	200	Gainsborough	18E	D L P	43 05	79 30
<i>formerly Snyder's Mills (C)</i> ST CATHARINES	7864	St Catharines T	21B	D L B	43 10	79 15
ST DAVIDS	270	Niagara Tp	20A	D L P	43 10	79 06
THIRTY MILE CREEK	20	Clinton Tp	21E	L	43 11	79 20
VIRGIL	70	Niagara Tp	20A	D L P	43 13	79 08
<i>formerly Crossroads (C), Lawrenceville</i> WARNER	.	Caistor	18D	D P	43 01	79 38
<i>also known as Caistor Corners (C2)</i> WELLAND PORT	300	Gainsborough	18E	D L M	43 00	79 29

Note: Lat = Latitude; Long. = Longitude.

Three primary sources were used to generate this list of places for 1871:

R.G. Dun and Co.'s Mercantile Agency Reference Book (D);

Lovell's Canadian Dominion Directory for 1871 (L);

Canadian Almanac and Repository of Useful Knowledge 1871 (P for ordinary post office, M for post office that could issue money orders, B for post office with savings bank function).



The Town of Niagara, on the other hand, had very little industry in 1871. Under three per cent of its population of 1,600 were counted as industrial employees, practically the lowest level of any Ontario urban centre in 1871. The mean value of output of an industrial worker in Niagara was only a little over one-third the mean value of a worker in St Catharines. Among the other rural townships of Lincoln County, those fronting on Lake Ontario west of Grantham -- Clinton, Grimsby and Louth -- showed higher levels of industrial activity than Caistor, Gainsborough and Niagara Township.

### **Industry Types**

Using the Standard Industrial Classification (SIC) code of each record and the more generalized Major Industry Group (SEC), it is possible to describe and compare the industrial structures of places from whole provinces to local townships and villages. In coding all the industrial establishments of Lincoln County, 75 different basic SIC codes (including suffixes, but trimming compounds) are used. In all of Ontario, a total of 172 such codes are used, and 196 in all of Canada.

When Lincoln County's industrial structure is compared with that of Ontario as a whole, we find that several sectors were significantly stronger in the county than generally in the province. Figure 2 has been designed to show these differences as clearly as possible, using major industry groups (SECs in the database). Textiles, paper, metal fabricating, transportation equipment and construction were sectors which in Lincoln County employed at least 1.5 times their share in Ontario as a whole. Leather and wood products, on the other hand, were under-represented in Lincoln County compared with their general strength in the province.

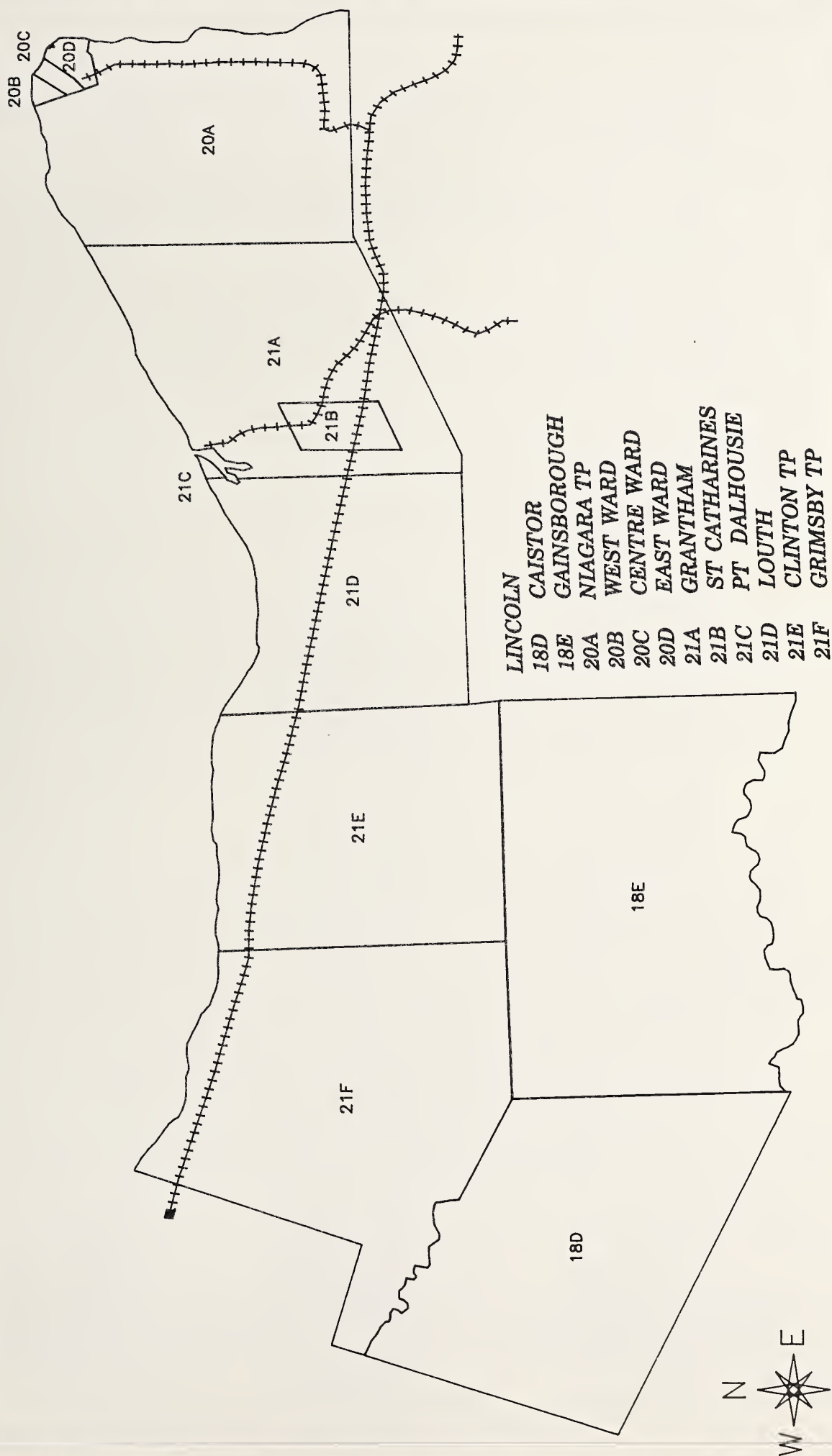
Figure 2 also illustrates the industrial structure of St Catharines in relation to all of Lincoln County and Ontario as a whole. Some of the differences in industrial structure between St Catharines and all of Lincoln County reflect urban-rural contrasts. Textile mills (and other cloth production) was typically located in rural areas and small villages, while the making of clothing was concentrated in urban places. Construction activity was also more intensive in the larger towns and cities, while blacksmiths were more typical in the countryside than in the towns.

Some features of industry types in St Catharines also reflect the strength of particular enterprises. A notable example is the business of Tuttle, Date and Rodden, later Welland Vale, which swells the size of St Catharines' metal fabricating sector in Figure 2. Manufacturing agricultural hand tools, this firm employed 120 of the 1,106 men in St Catharines' industrial workplaces and contributed nearly one-eighth of the total value added in manufacturing.

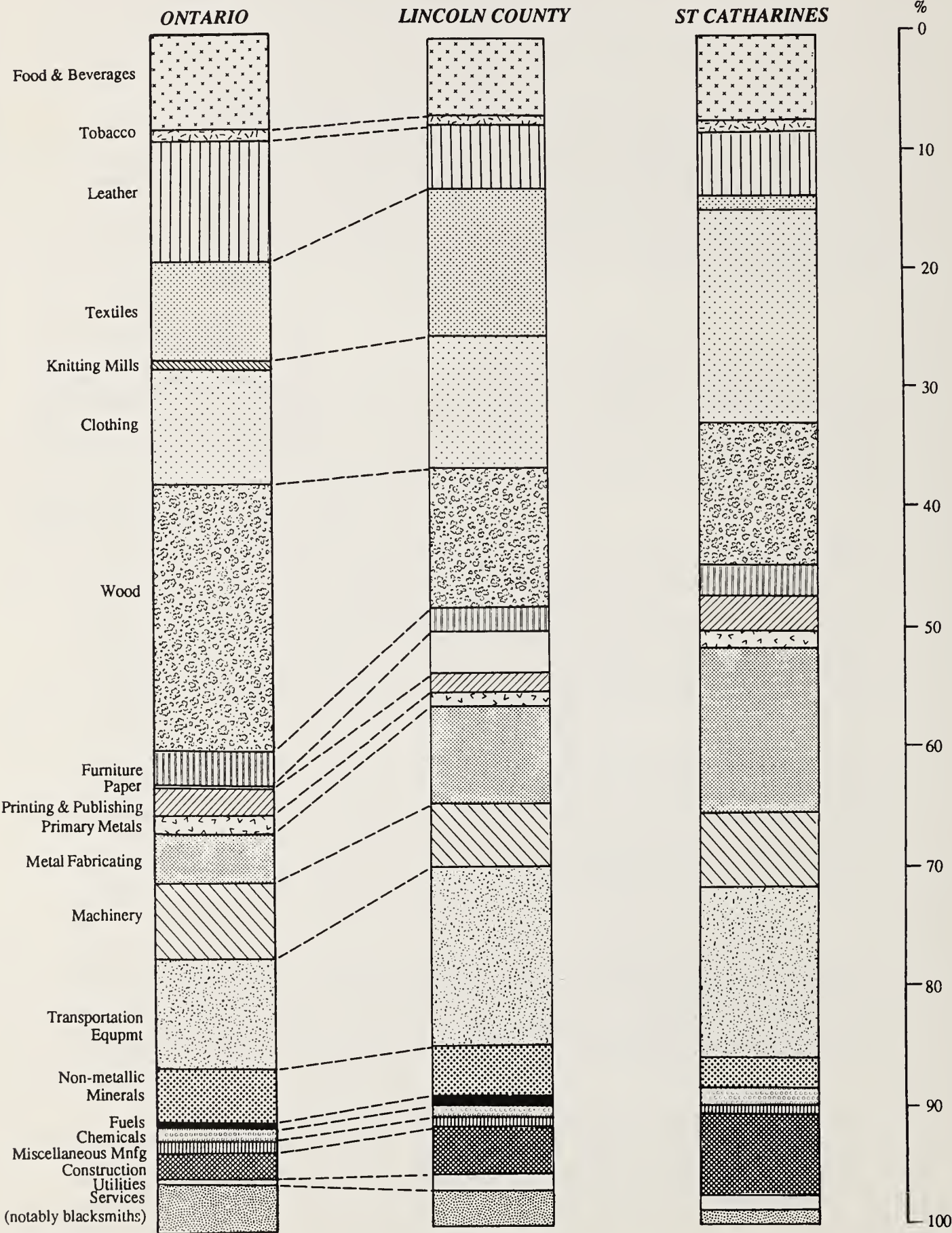
Compared with other large towns and cities of Ontario, St Catharines combined above-average industrial activity with a diversified industrial structure not dominated by any particular sector or enterprise. In these qualities, St Catharines resembled Toronto, Hamilton and Peterborough, rather than towns and cities such as Ottawa,



# LINCOLN COUNTY



COMPARATIVE INDUSTRIAL STRUCTURES: Percentages Employed in Major Industry Groups (SECs)





Brantford, Guelph, Brockville, Galt, Oshawa, Ingersoll and Dundas which were specialized in particular sectors as well as highly industrialized.<sup>12</sup>

### **Size of Establishment**

Most of Lincoln County's industrial establishments were small craftshops -- blacksmiths, tinsmiths, bakers, saddlers, shoemakers, tailors, milliners, weavers and knitters, coopers, carpenters, carriage and wagon makers. The average number of employees in each establishment was 6.1 (for Ontario as a whole it was 4.4). Two in every three workplaces in Lincoln County had five or fewer workers, a smaller percentage than the 87 per cent in Ontario generally. Middle-sized and large employers were more important in Lincoln than in Ontario generally (Table 5). While eight businesses in the county (under two per cent) employed over 50 workers, these accounted for 27 per cent of all industrial workers, 18 per cent of the gross value of production and 28 per cent of the total value added in manufacturing.

Many industrial establishments had small values of production as well: one in five of Lincoln County's units produced \$500 worth or less of industrial output. But such small establishments were less significant than in some other Ontario counties, as the proportion of businesses producing \$500 or less was over 26 per cent in Ontario as a whole. At the other extreme, the eleven enterprises reporting at least \$50,000 worth of output formed only two per cent of all establishments in Lincoln County but accounted for nearly half the total value of production. The full manuscript details for the five enterprises with at least \$100,000 output are reproduced here.

### **Power Technology**

Fewer than one in five of the industrial firms in Lincoln County in April 1871 reported using water or steam power. But such firms were disproportionately important in employment, investment and production. Water- and steam-powered enterprises employed over half of all industrial workers, reported nearly 80 per cent of fixed capital invested in industry and accounted for over 70 per cent of the value of industrial production.<sup>13</sup> Water power, developed in connection with the Welland Canal, was clearly more important than steam power for the largest enterprises in this region. Seven firms reported using waterwheels with at least 100 horsepower, including Tuttle, Date and Rodden and two flour mills in St Catharines and the two cotton mills and paper mill in Merritton. Enterprises with smaller water-powered capacities are illustrated in the case of George Ball who developed two grist mills and two saw mills at Ball's Falls on Twenty Mile Creek in Louth Township (see sample records).

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<sup>12</sup> For analysis of the urban concentration of industry and of differences between specific urban centres, see Elizabeth Bloomfield and G.T. Bloomfield, The Ontario Urban System at the Onset of the Industrial Era (CANIND71 Research Report 3, 1989).

<sup>13</sup> See G.T. Bloomfield, Water Wheels and Steam Engines: Powered Establishments of Ontario (CANIND71 Research Report 2, 1989).

Table 6  
**6a. ONTARIO INDUSTRIAL ESTABLISHMENTS, 1871**  
**BY FIRM SIZE OR NUMBERS OF EMPLOYEES PER FIRM**

	Establishments % total	Employment % total	Production % total	Value Added % total
<b>Firm size</b>				
<b># employees</b>				
<u>small</u>				
1	39.8	9.0	6.1	6.2
2 - 5	45.3	28.5	29.9	25.7
<u>medium</u>				
6 - 50	14.1	40.1	44.2	44.6
<u>large</u>				
50+	0.8	22.4	19.8	23.5
<b>TOTALS</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

**6b: LINCOLN COUNTY INDUSTRIAL ESTABLISHMENTS, 1871**  
**BY FIRM SIZE OR NUMBERS OF EMPLOYEES PER FIRM**

	Establishments % total	Employment % total	Production % total	Value Added % total
<b>Firm size</b>				
<b># employees</b>				
<u>small</u>				
1	28.2	4.7	3.5	3.4
2 - 5	47.7	22.5	16.9	16.5
<u>medium</u>				
6 - 50	22.3	45.5	59.2	52.2
<u>large</u>				
50+	1.8	27.3	18.4	27.9
<b>TOTALS</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Sample records for nine of the eleven businesses that each reported output of at least \$50,000 in 1870-71 are reproduced on the following pages. Three of these -- Tuttle, Date and Rodden in St Catharines, John Riordan's paper mills in Merritton, and the Lybster Cotton Mills in Merritton -- ranked among Canada's industrial leaders in 1871, calculated as those in the top one per cent of Canadian firms in all four measures of number of employees, value of fixed capital investment, gross value of production and value added in manufacturing.<sup>14</sup> The sample records include the three large flour mills at St Catharines as well as R.H. Smith's saw factory in St Catharines and the Harris agricultural machinery works at Beamsville, as well as three of George Ball's establishments at Ball's Falls.

<sup>14</sup> See Elizabeth Bloomfield and G.T. Bloomfield, Patterns of Canadian Industry in 1871: An Overview Based on the First Census of Canada (CANIND71 Research Report 12, 1990); Industrial Leaders: The Largest Manufacturing Firms (CANIND71 Research Report 8, 1990).



## CANIND71 SAMPLE RECORDS: BALL'S FALLS

<i>proprior: GEORGE P M BALL</i>		<i>typeest: GRIST MILL</i>	
<i>cdid: 0021</i>	<i>ced: D-2</i>	<i>cdistric: LINCOLN</i>	<i>csd: LOUTH</i>
<i>sic: 105</i>	<i>sec: 5.01</i>	<i>month: 12</i>	<i>type:</i>
<i>fixcap: 4000</i>	<i>flocap: 500</i>	<i>typepow: WATER</i>	<i>force: 25</i>
<i>empmen: 2</i>	<i>empwom:</i>	<i>empboy:</i>	<i>empgirl:</i>
<i>totemp: 2</i>	<i>wages: 400</i>	<i>awwage: 16.67 per worker/month</i>	
<i>sumrawc: 13600</i>		<i>sumproc: 15975</i>	<i>vadd: 2375</i>
<i>rawmat1: GRAIN,WHEAT runit1: BU</i>		<i>rquant1: 8000</i>	<i>rvalue1:</i>
<i>rawmat2: GRAIN,ASSORTED runit2: BU</i>		<i>rquant2: 14000</i>	<i>rvalue2:</i>
<i>prod1: FLOUR</i>	<i>punit1: TON</i>	<i>pquant1: 160</i>	<i>pvalue1:</i>
<i>prod2: FEED</i>	<i>punit2: TON</i>	<i>pquant2: 175</i>	<i>pvalue2:</i>
<i>prod3: BRAN/SHORTS</i>	<i>punit3: TON</i>	<i>pquant3: 80</i>	<i>pvalue3:</i>

<i>proprior: GEORGE P M BALL</i>		<i>typeest: SAW MILL</i>	
<i>cdid: 0021</i>	<i>ced: D-2</i>	<i>cdistric: LINCOLN</i>	<i>csd: LOUTH</i>
<i>sic: 251</i>	<i>sec: 5.08</i>	<i>month: 7</i>	<i>type:</i>
<i>fixcap: 3000</i>	<i>flocap: 3000</i>	<i>typepow: WATER</i>	<i>force: 15</i>
<i>empmen: 6</i>	<i>empwom:</i>	<i>empboy:</i>	<i>empgirl:</i>
<i>totemp: 6</i>	<i>wages: 1000</i>	<i>awwage: 23.81 per worker/month</i>	
<i>sumrawc: 2500</i>		<i>sumproc: 4000</i>	<i>vadd: 1500</i>
<i>rawmat1: LOGS</i>	<i>runit1:</i>	<i>rquant1: 2500</i>	<i>rvalue1: 2500</i>
<i>prod1: LUMBER</i>	<i>punit1: FT</i>	<i>pquant1: 250000</i>	<i>pvalue1: 4000</i>

<i>proprior: GEORGE P M BALL</i>		<i>typeest: LIME KILN</i>	
<i>cdid: 0021</i>	<i>ced: D-2</i>	<i>cdistric: LINCOLN</i>	<i>csd: LOUTH</i>
<i>sic: 358-L</i>	<i>sec: 5.17</i>	<i>month: 12</i>	<i>type:</i>
<i>fixcap: 50</i>	<i>flocap: 50</i>	<i>typepow:</i>	<i>force:</i>
<i>empmen: 1</i>	<i>empwom:</i>	<i>empboy:</i>	<i>empgirl:</i>
<i>totemp: 1</i>	<i>wages: 250</i>	<i>awwage: 20.83 per worker/month</i>	
<i>sumrawc: 84</i>		<i>sumproc: 630</i>	<i>vadd: 546</i>
<i>rawmat1: LIMESTONE runit1: TOISE</i>		<i>rquant1: 22</i>	<i>rvalue1: 84</i>
<i>prod1: LIME</i>	<i>punit1:</i>	<i>pquant1: 4200</i>	<i>pvalue1: 630</i>

**CANIND71 SAMPLE RECORDS: ST CATHARINES FLOUR MILLS**

<i>proprior: JAMES NORRIS</i>		<i>typeest: FLOUR MILLS</i>	
<i>cdid: 0021</i>	<i>ced: B-1</i>	<i>cdistric: LINCOLN</i>	<i>csd: ST CATHARINES T</i>
<i>sic: 105</i>	<i>sec: 5.01</i>	<i>month: 8</i>	<i>type: U</i>
<i>fixcap: 45000</i>	<i>flocap: 150000</i>	<i>typepow: WATER</i>	<i>force: 120</i>
<i>empmen: 25</i>	<i>empwom:</i>	<i>empboy:</i>	<i>empgirl:</i>
<i>totemp: 25</i>	<i>wages: 10000</i>	<i>awwage: 50 per worker/month</i>	
<i>sumrawc: 575000</i>		<i>sumproc: 640000</i>	<i>vadd: 65000</i>
<i>rawmat1: GRAIN,WHEAT</i>			
	<i>runit1:</i>	<i>rquant1: 460000</i>	<i>rvalue1: 575000</i>
<i>prod1: FLOUR</i>	<i>punit1: BBL</i>	<i>pquant1: 92000</i>	<i>pvalue1: 640000</i>

<i>proprior: SYLVESTER NEELON</i>		<i>typeest: FLOUR MILLS</i>	
<i>cdid: 0021</i>	<i>ced: B-4</i>	<i>cdistric: LINCOLN</i>	<i>csd: ST CATHARINES T</i>
<i>sic: 105</i>	<i>sec: 5.01</i>	<i>month: 8</i>	<i>type: U</i>
<i>fixcap: 25000</i>	<i>flocap: 80000</i>	<i>typepow: WATER</i>	<i>force: 150</i>
<i>empmen: 15</i>	<i>empwom:</i>	<i>empboy: 5</i>	<i>empgirl:</i>
<i>totemp: 20</i>	<i>wages: 8000</i>	<i>awwage: 50.00 per worker/month</i>	
<i>sumrawc: 385000</i>		<i>sumproc: 447120</i>	<i>vadd: 62120</i>
<i>rawmat1: GRAIN,WHEAT</i>	<i>runit1: BU</i>	<i>rquant1: 350000</i>	<i>rvalue1: 385000</i>
<i>prod1: FLOUR</i>	<i>punit1: BBL</i>	<i>pquant1: 78000</i>	<i>pvalue1: 418560</i>
<i>prod2: BRAN/SHORTS/MIDDLINGS/OTHER OFFAL</i>			
<i>punit2: TON</i>		<i>pquant2: 2856</i>	<i>pvalue2: 28560</i>

<i>proprior: NORRIS &amp; CO</i>		<i>typeest: FLOUR MILLS</i>	
<i>cdid: 0021</i>	<i>ced: B-1</i>	<i>cdistric: LINCOLN</i>	<i>csd: ST CATHARINES T</i>
<i>sic: 105</i>	<i>sec: 5.01</i>	<i>month: 8</i>	<i>type:</i>
<i>fixcap: 10000</i>	<i>flocap: 25000</i>	<i>typepow: WATER</i>	<i>force: 50</i>
<i>empmen: 9</i>	<i>empwom:</i>	<i>empboy:</i>	<i>empgirl:</i>
<i>totemp: 9</i>	<i>wages: 2000</i>	<i>awage: 27.78 per worker/month</i>	
<i>sumrawc: 140680</i>		<i>sumproc: 150000</i>	<i>vadd: 9400</i>
<i>rawmat1: GRAIN,WHEAT</i>	<i>runit1:</i>	<i>rquant1: 112500</i>	<i>rvalue1: 140600</i>
<i>prod1: FLOUR/BRAN/SHORTS/MIDDLINGS</i>			
<i>punit1: BBL</i>		<i>pquant1: 28000</i>	<i>pvalue1: 150000</i>



# **CANIND71 SAMPLE RECORDS: METALS AND MACHINERY**

**proprior: TUTTLE DATE & RODDEN      typeest: AGRICULTURAL HAND TOOLS**  
**cdid: 0021      ced: B-1      cdistric: LINCOLN      csd: ST CATHARINES T**  
**sic: 306      sec: 5.13      month: 12      type: U**  
**fixcap: 75000      flocap: 85000      typepow: WATER      force: 350**  
**empmen: 120      empwom:      empboy:      empgirl:**  
**totemp: 120      wages: 55000      awage: 38.19 per worker/month**  
**sumrawc: 36000      sumproc: 137000      vadd: 101000**  
**rawmat1: IRON/STEEL      runit1:      rquant1:      rvalue1: 36000**  
**prod1: TOOLS, AGRICULTURAL HAND      punit1:      pquant1:      pvalue1: 137000**

**proprior: R H SMITH      typeest: SAW FACTORY**  
**cdid: 0021      ced: B-2      cdistric: LINCOLN      csd: ST CATHARINES T**  
**sic: 306-S      sec: 5.13      month: 12      type: U**  
**fixcap: 25000      flocap: 5000      typepow: STEAM      force: 18**  
**empmen: 31      empwom:      empboy:      empgirl:**  
**totemp: 31      wages: 18000      awage: 48.39 per worker/month**  
**sumrawc: 35000      sumproc: 55000      vadd: 20000**  
**rawmat1: STEEL, CAST/IRON      runit1:      rquant1:      rvalue1: 35000**  
**prod1: SAWS/TROWELS/KNIVES,STRAW      punit1:      pquant1:      pvalue1: 55000**

**proprior: A HARRIS & SON      typeest: AGRC IMPLEMENT MF**  
**cdid: 0021      ced: E-2      cdistric: LINCOLN      csd: CLINTON TP**  
**sic: 311      sec: 5.14      month: 11      type:**  
**fixcap: 5000      flocap: 25000      typepow: STEAM      force: 15**  
**empmen: 18      empwom:      empboy: 3      empgirl:**  
**totemp: 21      wages: 8000      awage: 34.63 per worker/month**  
**sumrawc: 12200      sumproc: 50000      vadd: 37800**  
**rawmat1: WOOD,ASSORTED**  
**runit1: FT BM      rquant1: 50000      rvalue1:**  
**rawmat2: IRON/STEEL, ASSORTED**  
**runit2: Q      rquant2: 3500      rvalue2: 36000**  
**prod1: REAPERS/MOWERS/IMPLEMENTS,AGRICULTURAL**  
**punit1:      pquant1: 500      pvalue1: 50000**

## CANIND71 SAMPLE RECORDS: MERRITTON

proprior: JOHN RIORDAN

typeest: PAPER MILLS

cdid: 0021

ced: A-3

cdistric: LINCOLN

csd: GRANTHAM

sic: 271

sec: 5.10

month: 11

type:

fixcap: 156000

flocap: 105000

typepow: WATER

force: 200

empmen: 80

empwom: 20

empboy:

empgirl:

totemp: 100

wages: 30000

awwage: 22.27 per worker/month

sumrawc: 70000

sumproc: 160000

vadd: 90000

rawmat1: GRASS/STRAW/RAGS/ROPE,OLD/SODA ASH/CHLORIDE OF LIME

runit1: TON

rquant1: 4000

rvalue1: 70000

prod1: PAPER,PRINTING,WRAPPING

punit1: TON

pquant1: 1100

pvalue1: 160000

proprior: GORDON &amp; MACKAY

typeest: LYBSTER COTTON MILLS

cdid: 0021

ced: A-3

cdistric: LINCOLN

csd: GRANTHAM

sic: 181

sec: 5.05

month: 11

type:

fixcap: 150000

flocap: 30000

typepow: WATER

force: 250

empmen: 47

empwom: 73

empboy: 37

empgirl: 43

totemp: 200

wages: 36000

awwage: 16.36 per worker/month

sumrawc: 66000

sumproc: 150000

vadd: 84000

rawmat1: COTTON

runit1: LB

rquant1: 440000

rvalue1: 66000

prod1: YARN,COTTON/CLOTH,COTTON

punit1: YD

pquant1: 1500000

pvalue1: 150000

proprior: WILLIAM W WAIT

typeest: COTTON MILLS

cdid: 0021

ced: A-3

cdistric: LINCOLN

csd: GRANTHAM

sic: 181

sec: 5.05

month: 11

type:

fixcap: 30000

flocap: 30000

typepow: WATER

force: 120

empmen: 15

empwom: 20

empboy: 20

empgirl: 20

totemp: 75

wages: 11000

awwage: 13.33 per worker/month

sumrawc: 55000

sumproc: 75000

vadd: 20000

rawmat1: COTTON

runit1: LB

rquant1: 340000

rvalue1: 55000

prod1: RAGS/YARN/WADDING/BATTING

punit1:

pquant1:

pvalue1: 75000



## Work Environments

The CANIND71 database provides a snapshot of the transition from artisanal craftshops to factories using machinery and integrated work processes. A useful concept in understanding this transition is the **work environment**, which combines measures of the size of the workplace with the extent to which non-manual power was used in the industrial process. A basic distinction is made drawn between workplaces with no inanimate power (represented on the left side of the diagram) and workplaces powered by water or steam (right side). Work environments are further categorized as to the size of their workforces, producing four size classes: 1-5 workers, 6-25 workers, 26-50 workers, and 51 or more workers. Powered establishments with at least 26 workers are called **factories**, while **manufactories** are non-powered workplaces with at least 26 workers. Smaller powered establishments are called **mills** if they had from 6 to 25 workers, **powered craftshops** if they had 5 or fewer workers.

Workplaces using only hand or horse power are called **artisans' craftshops** if they employed 5 or fewer. Slightly larger craftshops, without water or steam power and employing between 6 and 25 workers, have been called **sweatshops** in the context of a large city. **Outworkers**, who toiled at home under the putting-out system, would be

USE OF POWER			
		non-powered (hand/horse only)	powered by water or steam
SIZE OF WORKFORCE	51+	MANUFACTORIES (larger)	51+ FACTORIES (larger)
	26-50	MANUFACTORIES (smaller)	26-50 FACTORIES (smaller)
	6-25	SWEATSHOPS and larger CRAFTSHOPS	6-25 MILLS
	1-5	1-5 ARTISANS' CRAFTSHOPS	1-5 POWERED WORKSHOPS, smaller MILLS
		non-powered (hand/horse only)	powered by water or steam

included with the artisans' craftshops, from which it is hard to distinguish them on census manuscript evidence alone.<sup>15</sup> We should note that the terms used to describe the eight types of work environment do not really match contemporary usage in 1871, when factories, manufactories and shops were generic terms used interchangeably for all sizes of establishment. Our transcription of the natural language used by the census enumerators allows readers to note this terminology in the (TYPEEST) Type of Establishment data in the Appendix tables of this report.

Table 7  
DISTRIBUTION OF WORKERS IN WORK ENVIRONMENTS, 1871

Work Environment (# employees)	Rural Ontario	Urban Ontario	St Catharines	Rural Lincoln County
Non-Powered	%	%	%	%
Artisans (1-5 emp)	45.4	17.8	17.0	28.2
Sweatshops (6-25 emp)	5.8	20.2	34.0	11.2
Manufactories (26-50 emp)	0.3	4.8	5.4	2.6
Manufactories (>51 emp)	0.5	5.5	-	-
Sub-Total	52.0	48.3	56.4	42.0
Powered				
Small (1-5 emp)	15.8	3.2	1.3	8.5
Medium (6-25 emp)	19.6	13.0	15.1	16.8
Factories (26-50 emp)	5.4	8.3	8.6	-
Factories (>51 emp)	7.2	27.2	18.6	32.8
Sub-Total	48.0	51.7	43.6	58.0
TOTAL	100.0	100.0	100.0	100.0

How significant were the various work environments in Lincoln County in 1871? Table 7 summarizes the proportions of workers employed in the eight basic types of workplace, for St Catharines and rural Lincoln County, in relation to the proportions for all of urban Ontario and all of rural Ontario. Compared with Ontario urban centres generally, St Catharines had more of its workers in shops employing 6-25 hands and using no water or steam power, such as women and girls in clothing establishments and men in small metal and wood fabricating businesses. The industrial work environments of rural Lincoln County included the three large cotton and paper factories in Merritton, the unincorporated factory village of Grantham Township.

<sup>15</sup> For more discussion of this concept see Patterns of Canadian Industry in 1871 (Report 12) and Elizabeth Bloomfield and G.T. Bloomfield, Canadian Women in Workshops, Mills and Factories: The Evidence of the 1871 Census Manuscripts (CANIND71 Research Report 11, 1991).



### Appendix Tables

This county report presents several kinds of tabulations which are briefly introduced here. In understanding the abbreviated code names of database variables, users are referred to Table 3 on page 7, for the Standard Industrial Classification codes to Table 1 on page 5, and for the Major Industry Groups to Table 2 on page 6.

**Table A-1: Lincoln County: Geographical Summary of Firms, 1871**

Summary data for each Census Sub-District (CSD), including horse-power units of non-manual power, value of fixed and floating capital, numbers of employees (men, women, boys, girls and total), annual wages paid, costs of raw materials, gross value of production, value added in manufacturing, and number of establishments. Data are totalled for each Census District (or part thereof) in the county, and totalled for the whole county. See Figure 1 for a map of CSDs and pp. 9-12 for discussion of the distribution of industrial activity.

**Table A-2: Lincoln County: Industrial Structure, 1871**

Summary data for each Major Industry Group, including numbers and percentages of establishments, horse-power units, value of fixed capital, total employment, gross value of production, and value added in manufacturing. See Figure 2 for diagrammatic representations for the employment structure by Major Industry Groups of Lincoln County and St Catharines in relation to the structure for all of Ontario in 1871.

**Table A-3: Basic SIC codes for Lincoln County, 1871**

Summary data for each Standard Industrial Classification type (including code suffixes but trimming compounds). For discussion of SIC types, see pp. 4-5 and p. 12.

**Table A-5: Listings of Individual Establishments, Ranked by Value of Output, for Various SIC Types, 1871**

Data for flour mills; bakeries; tanneries; boot and shoe makers; textile producers; paper mills; clothing producers; saw mills; planing mills; coopers; furniture shops; metal-fabricating establishments; machinery producers; railway shops; ship and boat builders; miscellaneous manufactures; carriage and wagon shops; builders and contractors; brick, marble and lime works, oil refineries; chemical works; and blacksmiths.

**Table A-6: Lincoln County: Firms Using Inanimate Power, 1871**

Data for individual establishments reporting water, steam or horse power, ranked by horse-power units.

**Table A-7: Lincoln County: Firms Employing at least One Female in 1871**

Data for individual establishments, ranked by number of women and girls employed. Note use of FEMALE (total number of women and girls employed) as variable in this table only.

**Table A-8: Lincoln County: Firms by Name of Proprietor, 1871**

Data for individual establishments in alphabetical order of proprietor's name.

**Table A-9: St Catharines and Other Urban Centres: Firms by Name of Proprietor, 1871**

Data for individual establishments in alphabetical order of proprietor's name - Merritton, Niagara and Port Dalhousie as well as St Catharines.



Table A-1: Lincoln County: Geographical Summary of Firms, 1871

LINCOLN COUNTY: GEOGRAPHICAL SUMMARY OF FIRMS, 1871

CDID	CED	CSD	FORCE	FIXCAP	FLOCAP	EMP MEN	EMP WOM	EMP BOY	EMP GIRL	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD	OBSERV
0018	D	CAISTOR	401	14490	4945	32	1	2	.	35	3436	17059	28672	11413	20
0018	E	GAINSBOROUGH	100	14880	2150	39	.	.	.	39	6160	23810	44085	16640	16
0018			501	29370	7095	71	1	2	0	74	9596	40869	72757	28053	36
0020	A	NIAGARA TP	60	7885	2100	18	.	2	.	20	2200	50730	65100	14370	17
0020	B	WEST WARD	14	1100	4400	11	.	1	.	12	4386	1855	8150	6295	4
0020	C	CENTRE WARD	2	3075	8850	23	8	1	.	32	4965	13041	21076	8035	12
0020			76	12060	15350	52	8	4	0	64	11551	65626	94326	28700	33
0021	A	GRANTHAM	963	433895	237845	310	123	80	65	578	125738	317622	723747	400625	35
0021	B	ST CATHARINE	958	506340	688652	1106	197	77	28	1408	425360	1718961	2577000	856339	158
0021	C	PORT DALHOUS	40	29815	42650	122	13	8	.	143	48740	57630	133075	75145	20
0021	D	LOUTH	97	17167	12727	80	10	3	.	93	9326	32172	56111	23939	48
0021	E	CLINTON TP	174	40023	51836	177	23	12	3	215	41312	81243	178217	96144	76
0021	F	GRIMSBY TP	207	42505	23945	136	16	9	4	165	30218	59835	107991	48556	45
0021			2439	1069745	1057655	1931	382	189	100	2602	680694	2267463	3776141	1500748	382
			3016	1111175	1080100	2054	391	195	100	2740	701841	2373958	3943224	1557501	451

Table A-2: Lincoln County: Industrial Structure, 1871

LINCOLN COUNTY: INDUSTRIAL STRUCTURE, 1871

SEC	OBSERV		FORCE		FIXCAP		TOTEMP		SUMPROC		VADD	
	SUM	PERC-ENT	SUM	PERC-ENT	SUM	PERC-ENT	SUM	PERC-ENT	SUM	PERC-ENT	SUM	PERC-ENT
4	1	0.2	.	.	200	0.0	0	0.0	400	0.0	0	0.0
5.01	45	10.0	718	23.8	153200	13.8	181	6.6	1621826	41.1	221954	14.3
5.02	2	0.4	8	0.3	1750	0.2	20	0.7	13480	0.3	11295	0.7
5.04	53	11.8	14	0.5	12634	1.1	157	5.7	124053	3.1	71790	4.6
5.05	21	4.7	420	13.9	203830	18.3	334	12.2	277418	7.0	129712	8.3
5.07	54	12.0	.	.	4335	0.4	303	11.1	252911	6.4	97993	6.3
5.08	67	14.9	939	31.1	101846	9.2	342	12.5	262957	6.7	121256	7.8
5.09	14	3.1	6	0.2	8630	0.8	51	1.9	37700	1.0	25680	1.6
5.1	1	0.2	200	6.6	156000	14.0	100	3.6	160000	4.1	90000	5.8
5.11	9	2.0	4	0.1	18600	1.7	45	1.6	28000	0.7	19800	1.3
5.12	2	0.4	10	0.3	18150	1.6	28	1.0	26000	0.7	15815	1.0
5.13	19	4.2	413	13.7	126930	11.4	227	8.3	268600	6.8	164970	10.6
5.14	16	3.5	92	3.1	59000	5.3	143	5.2	143842	3.6	108247	7.0
5.15	34	7.5	152	5.0	101195	9.1	412	15.0	343557	8.7	240292	15.4
5.17	23	5.1	16	0.5	11550	1.0	121	4.4	45774	1.2	30620	2.0
5.18	2	0.4	21	0.7	25500	2.3	17	0.6	136500	3.5	96050	6.2
5.19	9	2.0	.	.	9000	0.8	31	1.1	40030	1.0	15680	1.0
5.2	13	2.9	.	.	1345	0.1	26	0.9	10096	0.3	5294	0.3
6	14	3.1	3	0.1	6125	0.6	109	4.0	84721	2.1	44899	2.9
7	1	0.2	.	.	80000	7.2	6	0.2	15000	0.4	9500	0.6
8	5	1.1	.	.	525	0.0	9	0.3	5120	0.1	3265	0.2
10	46	10.2	.	.	10830	1.0	78	2.8	45239	1.1	33389	2.1
Services (notably blacksmiths)	451	100.0	3016	100.0	1111175	100.0	2740	100.0	3943224	100.0	1557501	100.0
ALL	451	100.0	3016	100.0	1111175	100.0	2740	100.0	3943224	100.0	1557501	100.0

Table A-3: Basic SIC codes for Lincoln County, 1871

## BASIC SIC CODES FOR LINCOLN COUNTY, 1871

SIC	OBSERV	FORCE	FIXCAP	FLOCAP	EMP MEN	EMP WOM	EMP BOY	EMPGIRL	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
083	1	.	200	100	0	0	0	.	0	250	400	400	0
101-P	4	.	1900	13300	10	0	0	.	10	2090	13000	18945	5945
103	1	.	2500	2500	7	12	2	3	24	1000	1500	3500	2000
104	3	.	2600	250	4	2	0	.	6	550	6462	7558	1096
105	20	694	127800	273900	84	0	5	.	89	28554	1321028	1504018	182990
107	8	.	5400	4150	16	3	4	1	24	5726	37429	50541	13112
108-C	1	.	2000	4000	2	1	0	.	3	800	2913	4139	1226
109-B	1	8	10000	10000	12	0	0	.	12	4380	12500	22000	9500
109-C	4	16	250	.	6	0	1	.	7	110	970	2145	1175
109-S	1	.	400	600	1	0	2	1	4	780	3170	6180	3010
109-W	2	.	350	1000	2	0	0	.	2	325	900	2800	1900
153	2	8	1750	19579	10	3	3	4	20	5180	2185	13480	11295
172	6	14	4200	8950	11	0	0	.	11	2710	5895	14620	8725
174	38	.	5934	13885	103	7	3	1	114	27588	31828	80083	47255
179-S	8	.	2400	5900	27	0	0	.	27	6435	11740	26850	15110
179-T	1	.	100	1800	3	2	0	.	5	500	1800	2500	700
181	2	370	180000	60000	62	93	57	63	275	47000	121000	225000	104000
182	2	50	23500	12500	16	10	3	2	31	5300	12850	26100	13250
182-W	14	.	250	85	5	13	1	1	20	1082	3776	7238	3462
187	2	.	.	5000	6	0	0	.	6	3000	10000	18000	8000
189-D	1	.	80	150	1	1	0	.	2	1000	80	1080	1000
242	17	.	3050	31725	66	80	1	2	149	35150	74030	131800	57770
243	2	.	60	.	0	2	0	.	2	50	500	800	250
244	25	.	525	10945	0	73	0	11	84	6863	51328	74111	21533
246	1	.	500	10000	1	25	0	5	31	5500	9260	20000	10740
249-H	1	.	.	.	0	1	0	1	2	.	.	100	.
249-M	8	.	200	5070	0	30	0	5	35	2968	18400	26100	7700
251	30	860	64320	41975	134	0	20	.	154	24991	74619	125345	50726
251-S	1	10	600	200	2	0	0	.	2	60	40	150	110
254	7	47	20450	13200	75	0	1	.	76	24800	20272	50900	30628
256	2	8	1100	1000	4	1	1	.	6	1030	1360	3582	2192
259	8	14	1435	4175	15	0	1	.	16	4460	3190	10200	7010
259-C	18	.	13941	26390	78	0	9	.	87	20755	41690	70280	28590
259-W	1	.	.	200	1	0	0	.	1	.	500	2500	2000
261	14	6	8630	9910	41	7	3	.	51	16007	12020	37700	25680
271	1	200	156000	105000	80	20	0	.	100	30000	70000	160000	90000
286	2	.	1400	2100	7	0	0	.	7	1800	1000	2000	1400
287-B	2	.	1200	700	4	1	0	.	6	1700	670	3000	2330
289	5	4	16000	7700	24	0	8	.	32	8900	6930	23000	16070
294	2	10	18150	9200	27	0	1	.	28	8200	10185	26000	15815
304-T	12	.	11200	25612	47	0	2	.	49	14550	22075	48700	26625
306	1	350	75000	85000	120	0	0	.	120	55000	36000	137000	101000
306-C	1	45	15000	15000	18	0	3	.	21	6500	10000	25000	15000
306-S	1	18	25000	5000	31	0	0	.	31	18000	35000	55000	20000
309	3	.	650	180	5	0	0	.	5	1450	530	2700	2170
309-S	1	.	80	.	1	0	0	.	1	170	25	200	175
311	8	54	25400	57510	64	0	5	.	69	21650	24890	87392	62502
315	3	27	21100	6600	55	0	0	.	55	17200	6635	32200	25565
315-P	4	8	2500	1250	6	0	1	.	7	2000	1070	4250	3180
315-S	1	3	10000	5000	12	0	0	.	12	6000	3000	20000	17000
326	1	12	.	.	14	0	0	.	14	5500	1500	7200	5700



## BASIC SIC CODES FOR LINCOLN COUNTY, 1871

SIC	OBSERV	FORCE	FIXCAP	FLOCAP	EMP MEN	EMP WOM	EMP BOY	EMP GIRL	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
327	4	70	42000	48000	178	0	9	.	187	66560	28500	120000	91500
327-M	1	.	150	.	0	0	0	.	0	.	400	900	500
328	2	.	.	1050	3	0	1	.	4	650	330	1190	860
329	24	10	27045	25100	123	0	4	.	127	30180	24900	79267	51732
329-P	2	60	32000	30000	70	0	10	.	80	28000	45000	135000	90000
351-B	7	16	7450	8640	75	0	14	.	89	11290	700	23700	16700
351-P	3	.	950	250	7	0	0	.	7	815	337	3175	2838
353	2	.	2500	3000	7	0	0	.	7	3800	7000	14000	7000
358-L	11	.	650	602	16	0	2	.	18	1690	817	4899	4082
365	2	21	25500	10500	17	0	0	.	17	8300	40450	136500	96050
374	5	.	1700	1375	10	0	3	.	13	1650	2600	6600	4000
376	2	.	5300	6000	6	0	0	.	6	1700	18900	23030	4130
378-P	2	.	2000	2000	12	0	0	.	12	3180	2850	10400	7550
392	2	.	.	500	3	0	0	.	3	.	475	1500	1025
399-B	10	.	1345	1655	20	0	1	.	21	1914	4127	8296	4169
399-W	1	.	.	200	0	2	0	.	2	.	200	300	100
421-C	7	3	4500	9300	61	0	3	.	64	23358	30472	63021	32549
421-D	4	.	1575	2800	26	0	6	.	32	6300	4300	11100	6800
421-S	3	.	50	1800	12	0	1	.	13	4160	5050	10600	5550
574	1	.	80000	.	6	0	0	.	6	3000	5500	15000	9500
658	1	.	150	25	1	0	0	.	1	50	30	120	90
695	4	.	375	2000	8	0	0	.	8	3550	1225	5000	3175
893	4	.	3350	900	6	2	0	.	8	1308	2400	7500	5100
896	42	.	7480	6112	67	0	3	.	70	14772	9250	37739	28289
	=====		=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
	451	3016	1111175	1080100	2054	391	195	100	2740	701841	2373958	3943224	1557501

**Table A-4: Listings of Individual Establishments, Ranked by Value of Output, for Various SIC Types, 1871**

LINCOLN COUNTY: FLOUR MILLS BY VALUE OF OUTPUT, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	B-1	NORRIS	FLOUR MILLS	105	45000	WATER	120	25	10000	575000	640000	65000
0021	B-4	NEELON	FLOUR MILL	105	25000	WATER	150	20	8000	385000	447120	62120
0021	B-1	NORRIS & CO	FLOUR MILLS	105	10000	WATER	50	9	2000	140600	150000	9400
0021	C	LAWRIE	FLOUR/GRIST MILL	105	6000	WATER	20	5	1380	33000	40000	7000
0020	A-2	BENSON MICHAEL	GRIST MILL	105	2000	WATER	.	1	.	30000	30500	500
0021	A-3	SMITH WM S	MERRITTON FLOUR	105	300	WATER	50	3	500	20000	28000	8000
0021	B-2	HOSSETTER HERMAN	GRIST MILL	105	7000	.	.	2	624	21825	25447	3622
0021	E-2	KENNY ROBERT	GRIST MILL	105	4500	STEAM	16	3	1150	17556	20179	2623
0018	E-1	KERR ROBERT	GRIST MILL	105	4000	STEAM	24	2	700	15000	20000	5000
0021	F-1	GURNEY & NELLES	FLOUR MILL	105	5000	STEAM	25	2	700	14000	16000	2000
0021	D-2	BALL GEORGE P M	GRIST MILL	105	4000	WATER	25	2	400	13600	15975	2375
0021	F-2	EDMONDS EBENEZER	GRIST MILL	105	700	STEAM	60	2	600	13000	15000	2000
0021	A-3	SIMPSON THOMAS	DOMINION FLOUR M	105	.	WATER	30	2	600	10830	14257	3427
0021	E-1	DEAN ANDREW	FLOUR MILL	105	6000	STEAM	24	3	800	9750	11560	1810
0020	A-1	HUME I G	GRIST MILL	105	700	WATER	25	1	.	7000	10000	3000
0020	A-1	WILCOX EDWARD	GRIST MILL	105	400	WATER	20	1	.	5000	7500	2500
0021	F-1	WILSON WILLIAM	GRIST MILL	105	3000	STEAM	15	3	850	4367	5430	1063
0020	A-1	.	GRIST MILL	105	200	WATER	15	1	.	3000	4000	1000
0018	D-1	SMITH & MELICK	GRIST MILL	105	3000	W/S	25	1	250	1500	1750	250
0020	A-2	SERVOS PETER C	GRIST MILL	105	1000	WATER	.	1	.	1000	1300	300
					=====				=====	=====	=====	=====
					127800				28554	1321028	1504018	182990
					694				89			

LINCOLN COUNTY: BAKERIES BY VALUE OF OUTPUT, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	B-2	MCARDLE	BAKER SHOP	107	2000	.	.	5	1976	12000	15000	3000
0021	B-1	ELMSLIE	EDMOND BAKERY	107	1000	.	.	3	600	5000	8000	3000
0021	B-3	MAXWELL	ALEXAND BAKERY	107	1000	.	.	5	700	6500	8000	1500
0021	B-1	CAIN	ARTHUR BAKERY	107	100	.	.	2	300	4700	6000	1300
0021	B-2	SHEA	LAURENC BAKER SHOP	107	500	.	.	2	1000	3378	5000	1622
0020	C	PATTERSON EDWARD	BAKERY	107	200	.	.	2	300	3276	4476	1200
0021	A-3	WINSLOW JOHN	BAKERY	107	200	.	.	2	450	1530	2520	990
0021	E-2	ARNNISS JEREMIAH	BAKERY	107/108-C	400	.	.	3	400	1045	1545	500
					=====				=====	=====	=====	=====
					5400				5726	37429	50541	13112
					0				24			

## LINCOLN COUNTY: TANNERIES BY VALUE OF OUTPUT, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	B-4	WOOD	JAMES	172	2000	STEAM	8	5	2000	3000	9000	6000
0021	B-4	BURNETT	GEORGE	172	500		.	1	250	1300	2500	1200
0021	D-2	CLARK S ?	TANNERY	172	1000	STEAM	6	1	300	1000	2000	1000
0021	D-2	MATLOCK JOSIAH	TANNERY	172	50		.	2	.	425	720	295
0018	E-1	HEASLIP JAMES D	TANNERY	172	500		.	1	100	120	250	130
0021	E-2	FIRSTINE GEORGE	TANNERY	172	150		.	1	60	50	150	100
=====												
					4200		14	11	2710	5895	14620	8725

## LINCOLN COUNTY: BOOT &amp; SHOE MAKERS BY VALUE OF OUTPUT, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	B-1	HEALEY	TIMOTHY	174	350		.	22	7000	8000	18000	10000
0021	B-1	CAIRNS	JAMES &	174	100		.	6	2000	3000	9000	6000
0021	B-1	LINDSAY	N A	174	500		.	9	2500	2200	6000	3800
0021	B-2	FISH	LYMAN W	174	150		.	5	1200	1500	4500	3000
0020	C	HEWITT	WILLIAM	174	200		.	7	1300	2700	4000	1300
0021	B-2	CONNOR	FRANCIS	174	200		.	5	2000	1500	4000	2500
0021	B-3	CAMPBELL	W & H	174	.		.	2	400	1100	3600	2500
0021	C	WOODALL	JONATHA	174	600		.	4	1000	1600	3500	1900
0021	C	JOHNSON	JOSEPH	174	100		.	4	960	1200	3000	1800
0021	F-1	WHITTAKER	JOSEPH	174	300		.	4	600	700	1800	1100
0021	E-2	BOYER MATTHIAS	BOOT/SHOE SHOP	174	60		.	2	500	862	1734	872
0020	A-1	FISHER THOMAS	SHOE SHOP	174	300		.	1	300	500	1500	1000
0021	B-1	BEATTIE	THOS	174	.		.	3	600	500	1500	1000
0021	B-3	MCLAUGHLIN	JAMES	174	300		.	2	300	800	1300	500
0021	F-2	ADAMS THOMAS	SHOE SHOP	174	600		.	3	600	600	1300	700
0021	E-1	ALBRIGHT DANIEL	SHOE SHOP	174	300		.	2	600	500	1200	700
0021	E-2	BOUGHNER PATRICK	BOOT/SHOE SHOP	174	60		.	2	400	600	1200	600
0018	E-1	ROSS WILLIAM N	BOOT/SHOE SHOP	174	200		.	2	600	200	1000	800
0018	E-1	ROSE JOSEPH H	BOOT/SHOE SHOP	174	200		.	1	500	200	1000	800
0018	E-2	LONSTON JOHN	BOOT/SHOE SHOP	174	300		.	3	400	200	1000	800
0021	D-2	MILES ALSON	SHOE SHOP	174	207		.	4	480	150	1000	850
0021	D-2	PEGAN ROBERT A	SHOE SHOP	174	40		.	1	.	329	770	441
0021	E-1	STEWART WILLIAM	SHOE SHOP	174	12		.	1	25	40	750	710
0021	F-2	ALCOCK ROBERT	SHOE SHOP	174	250		.	2	300	400	704	304
0021	F-1	FARREL JOHN	SHOE SHOP	174	100		.	1	400	300	700	400
0021	D-2	SCHOBEN CHRISTIAN	SHOE SHOP	174	50		.	2	50	200	675	475
0021	F-2	BREHENEY EDWARD	SHOE SHOP	174	.		.	1	400	200	600	400
0021	F-2	COLLINS JEREMIAH	SHOE SHOP	174	.		.	2	133	400	600	200
0021	B-2	DILLON MRS ANN	SHOE SHOP	174	.		.	1	250	125	500	375
0021	D-2	HILL HENRY	SHOE SHOP	174	15		.	2	.	200	500	300
0021	E-1	HOUSE GERARD	SHOE SHOP	174	50		.	1	300	200	500	300
0021	F-2	NEWTON FRANCIS E	SHOE SHOP	174	50		.	1	300	100	500	400
0021	E-1	SIMPSON CYRUS A	SHOE SHOP	174	110		.	1	240	75	400	325
0021	E-2	GOODMAN REUBEN	SHOEMAKING	174	25		.	1	150	233	400	167
0021	E-2	LIBROCK PHILIP	SHOEMAKER SHOP	174	25		.	1	200	300	400	100
0021	F-1	RANDALL THOMAS	SHOE SHOP	174	30		.	1	250	125	360	235
0018	D-2		SHOE STORE	174	100		.	1	250	39	340	301
0021	E-1	HUFFMAN JOHN	SHOE SHOP	174	50		.	1	100	150	250	100
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					5934		0	114	27588	31828	80083	47255



## LINCOLN COUNTY: TEXTILE PRODUCERS BY VALUE OF OUTPUT, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	A-3	GORDON & WAIT	LYBSTER COTTON MILLS	181	150000	WATER	250	200	36000	66000	150000	84000
0021	A-3	WILLIAM	COTTON MILLS	181	30000	WATER	120	75	11000	55000	75000	20000
0021	A-3	DISHER & HAIGHT	WOOLEN MILL	182	20000	WATER	40	22	3800	10850	22000	11150
0021	B-1	MCCOURT JAMES	SAIL MAKING	187	.	.	.	4	2000	6000	12000	6000
0021	C	ROBESON DAVID	SAIL MAKING EST	187	.	.	.	2	1000	4000	6000	2000
0021	B-2	BECKETT WILLIAM	CLOTH FACTORY	182	3500	WATER	10	9	1500	2000	4100	2100
0021	E-2	LITTLE AUGUSTUS	WEAVER	182-W	25	.	.	1	400	670	1356	686
0021	B-2	STOCKWELL EDWARD	DYE SHOP	189-D	80	.	.	2	1000	80	1080	1000
0021	E-2	WISMER ABRAM	WEAVER	182-W	30	.	.	1	150	494	910	416
0021	E-2	BOUGHNER EDWARD	WEAVER	182-W	30	.	.	1	50	500	850	350
0021	E-2	SKELLEY SARAH	WEAVING LOOM	182-W	20	.	.	2	72	480	840	360
0021	D-2	NEW FREDERICK	WEAVING LOOM	182-W	30	.	.	2	.	200	700	500
0021	D-2	CLIME OLIVE	WEAVING LOOM	182-W	10	.	.	1	.	400	475	75
0021	F-2	ALLEN MARY JANE	WEAVING LOOM	182-W	.	.	.	4	200	150	450	300
0021	A-3	PAGE SARAH	WEAVER	182-W	20	.	.	1	65	130	350	220
0021	D-1	OSTERHOUT MARY	WEAVER	182-W	20	.	.	1	.	120	300	180
0021	E-2	WILCOX BENJAMIN	WEAVING LOOM	182-W	15	.	.	1	30	190	280	90
0021	E-2	KING LIDIA	WEAVER	182-W	15	.	.	1	65	112	240	128
0021	E-2	COMFORT FRANCIS	WEAVING LOOM	182-W	20	.	.	2	50	140	225	85
0021	D-2	FOSTER ELIZA	WEAVING LOOM	182-W	5	.	.	1	.	150	187	37
0021	E-1	JOHNSON JOHN	WEAVER	182-W	10	.	.	1	.	40	75	35
					=====	=====	=====	=====	=====	=====	=====	=====
					203830		420	334	57382	147706	277418	129712

## LINCOLN COUNTY: PAPER MILLS BY VALUE OF OUTPUT, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	A-3	RIORDAN JOHN	PAPER MILLS	271	156000	WATER	200	100	30000	70000	160000	90000
0021					=====	=====	=====	=====	=====	=====	=====	=====
					156000		200	100	30000	70000	160000	90000

LINCOLN COUNTY: CLOTHING PRODUCERS BY VALUE OF OUTPUT, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	B-1	BOLES	WILLIAM	TAILOR/CLOTHING	242/243	800	.	45	14000	20000	37500	17500
0021	B-1	COUPER &	CRAIG	TAILOR/CLOTHIER	242	.	.	15	3500	14000	21000	7000
0021	B-1	ARRONS	P B	MILLINERY/MANTLE	244/249-M	.	.	8	1200	15000	20000	5000
0021	B-1	TAIT	JAMES D	FUR/MANTLE MF	246	500	.	31	5500	9260	20000	10740
0021	B-1	LEPPER	JOHN &	TAILOR/CLOTHING	242	200	.	22	5000	10000	20000	10000
0021	B-1	BARR	WM	DRESSMAKER/MILLI	244/249-M	100	.	8	1600	10000	15000	5000
0021	B-1	CARLISLE	HENRY	CLOTHING STORE	242	150	.	8	3000	5000	12000	7000
0021	B-1	GILLESPIE	J B	MILLINERY	249-M/244	100	.	3	750	5000	7000	2000
0021	B-1	PURVES	ADAM	MILLINERY/MANTLE	244/249-M	100	.	5	600	5000	7000	2000
0021	B-1	NESEB	CHRISTI	DRESSMAKER	244	.	.	4	500	5000	6500	1500
0021	B-1	CONGLE	PETER	TAILOR/CLOTHIER	242	200	.	8	1500	3000	6000	3000
0021	B-1	SUTHERLAND	MAGGIE	MILLINERY/MANTLE	249-M/244	.	.	6	600	4000	6000	2000
0021	E-2	JAMES HENRY S	MILLINERY/DRESSM	249-M/244	100	.	.	7	400	5000	6000	1000
0021	B-2	LAUDER MISS JESSI	DRESSMAKER SHOP	244	70	.	.	7	240	3978	5226	1248
0020	C	ROWLAND	THOMAS	MILLINERY EST	242	200	.	9	1000	4000	5000	1000
0021	B-1	STRUTHERS	ROBERT	TAILOR/MANTLES	242/244	500	.	6	1500	3500	5000	1500
0021	B-2	WINNER	JOHN	TAILOR SHOP	242	.	.	6	1000	2000	4000	2000
0021	B-1	MAHONEY	THOS	TAILOR ESTABLISH	242	100	.	4	700	1200	3500	2300
0021	F-1	DENTON	JOHN	TAILOR SHOP	242	200	.	5	600	2200	3500	1300
0021	B-1	REID	JOHN	CLOTHING EST	242	50	.	5	1675	1875	3500	1625
0021	B-1	COOK	CECILIA	DRESSMAKING	244	.	.	6	600	2000	3000	1000
0021	B-2	SKINNER	MRS	DRESSMAKER SHOP	244	.	.	6	200	2000	3000	1000
0021	B-1	MCNAMARA	MRS R	MILLINERY	249-M	.	.	4	650	2080	2860	780
0021	B-2	CARNALL	REBECCA	MILLINERY STORE	249-M/245	.	.	4	200	2000	2500	500
0021	D-2	MOTTIS MICHAEL	TAILOR SHOP	242	100	.	.	10	800	1000	2500	1500
0021	B-1	ST JOHN	ELIZA	MANTLE MAKING	244	.	.	3	150	1500	2200	700
0021	E-2	HODGE ARCHIBALD	TAILOR	242	100	.	.	4	375	1500	2000	500
0021	E-2	OSBORN J B & SON	MILLINERY/DRESSM	244/249-M	.	.	.	2	200	1500	1900	400
0021	B-1	GREGORY ADELINE	MILLINERY	249-M	.	.	.	6	100	1200	1800	600
0021	B-1	WELCH	ROBERT	TAILOR	242	75	.	2	100	1000	1500	500
0021	B-2	JACKSON	JULIA	DRESSMAKER SHOP	244	.	.	1	200	1000	1500	500
0021	B-2	WALKER	MRS HEN	MILLINER SHOP	244	50	.	3	480	750	1400	650
0021	E-2	BOUGHNER THOMAS	TAILOR SHOP	242	300	.	.	2	400	780	1300	520
0021	D-2	ZIMMERMAN REBECCA	MILLINERY/DRESSM	244/243	50	.	.	2	55	700	1100	400
0021	B-1	MCCARTHY	KATE	DRESSMAKING	244	.	.	5	400	400	1000	600
0021	B-1	GIBBS	MRS WM	DRESS/MANTLE MAK	244	.	.	1	400	400	1000	600
0020	C	ROWLAND	THOMAS	MILLINERY SHOP	244/249-M	25	.	1	300	600	950	350
0021	D-2	MILLER CASPAR	TAILOR	242	75	.	.	2	150	475	900	425
0021	D-2	PURDY MARGARET	TAILOR ESTABLISH	243	.	.	.	1	.	500	750	250
0021	B-1	GORDON	CARRIE	DRESSMAKING	244	.	.	1	.	600	700	100
0021	B-1	PRESTON	VIOLET	DRESSMAKER	244	.	.	2	8	400	600	200
0021	C	ANDERSON	HARRIET	DRESSMAKER	244	.	.	2	90	300	600	300
0021	B-1	ROBERTSON	ELIZABE	DRESS/MANTLE EST	244	.	.	3	100	300	500	.
0021	B-3	CLARK	MARIA	MILLINERY/DRESSE	249-M/244	.	.	2	100	300	450	150
0021	B-1	RILEY	CHARLOT	DRESSMAKING	244	.	.	1	.	300	300	.
0021	C	BOWMAN	SUSAN	DRESS MAKING EST	244	40	.	2	70	200	275	75
0021	C	PHILLAMORE	ELLEN	DRESS MAKING EST	244	40	.	3	70	150	250	100
0021	C	MCCALL	ELLEN	DRESS MAKING EST	244	50	.	1	.	250	250	.
0021	B-1	CLARK	JANE	DRESSMAKING	244	.	.	2	.	200	200	.
0021	B-3	BURR	JAMES	MILLINER	249-M/243	.	.	1	18	100	150	50
0021	B-1	BATES	ELIZABE	HAT CLEANING/REP	249-H	.	.	2	.	100	100	.
0021	B-2	SCHRAM	MARGARE	MILLINER/DRESSMA	244	.	.	1	.	70	100	30
0021	C	ROSE	SUSAN	TAILOR ESTABLISH	243	60	.	1	50	.	50	.
=====									=====	=====	=====	=====
									0	303	50531	97993
									=====	=====	=====	=====
									4335	153518	252911	97993

## LINCOLN COUNTY: SAW MILLS BY VALUE OF OUTPUT, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	B-4	GILLESPIE & SIMPS	SAW MILL	251	5000	WATER	30	16	4000	19000	25000	6000
0021	B-4	HELLEMS & JACKSON	PLANING MILL	251	7000	STEAM	20	17	4000	10000	18000	8000
0021	E-2		SAW MILL/AG IMPL	251/311	3000	STEAM	20	12	4000	4800	9725	4925
0021	A-3	HELPS N & O J	SAW MILL	251	6000	WATER	50	10	2000	4800	7800	3000
0018	E-2	DEVIT JOSEPH	SAW MILL	251	2500	STEAM	20	4	700	3500	7200	3700
0018	D-2	JOHNSON JEREMIAH	SAW MILL	251	2000	STEAM	15	6	96	1500	6000	4500
0021	A-3	SMITH JOHN B	COOPER/HEADING F	251	300	WATER	40	3	700	2500	5000	2500
0018	D-1	BOOK ISAAC	SAW MILL	251	1200	STEAM	16	3	250	3200	4000	800
0018	E-2	MCDONALD JOHN	SAW MILL	251	2000	STEAM	14	3	500	2000	4000	2000
0021	D-2	BALL GEORGE PM	SAW MILL	251	3000	WATER	15	6	1000	2500	4000	1500
0021	D-2	BALL GEORGE P M	SAW MILL	251	3000	WATER	15	7	1000	2500	4000	1500
0021	A-3	REYNOLDS B G	SAW MILL	251	5000	WATER	45	3	900	1500	3500	2000
0018	D-1	SMITH & MELICK	SAW MILL	251	4000	W/S	25	3	750	3000	3000	0
0021	F-1	RUSS CYRUS	SAW MILL	251/251-S	3500	STEAM	16	10	800	1029	2540	1511
0021	F-2	PATTERSON WILLIAM	SAW MILL	251	1000	STEAM	12	3	450	1800	2500	700
0018	D-2	LYMBURNER & LAFFE	SAW MILL	251	20	WATER	300	2	50	1500	2000	500
0021	F-1	WILSON WILLIAM	SAW MILL	251	3000	STEAM	15	3	850	800	2000	1200
0018	E-1	TANNER WILLIAM	SAW MILL	251	1500	STEAM	12	7	250	1000	1800	800
0021	E-1	HUNTSMAN JOHN	SAW MILL	251	1000	STEAM	12	4	600	900	1800	900
0021	E-1	HUNTSMAN ADAM	SAW MILL	251	1200	WATER	30	6	540	1060	1680	620
0021	F-1	BOWSLAUGH WILLIAM	SAW MILL	251	1000	STEAM	20	4	345	850	1600	750
0021	D-1	ADAMS WILLIAM	SAW MILL	251	1200	WATER	28	3	200	1250	1500	250
0021	F-2	OILL JAMES	SAW MILL	251	1500	WATER	.	3	150	750	1500	750
0018	E-1	KERR ROBERT	SAW MILL	251	600	WATER	10	2	180	600	1300	700
0018	D-2	LYMBURNER ALLEN	SAW MILL	251	1200	WATER	10	2	140	560	1200	640
0021	F-1	BEAMER JOHN	SAW MILL	251	400	WATER	20	2	120	370	700	330
0021	E-1	EDDY EDWIN	SAW MILL	251	700	STEAM	10	3	150	300	600	300
0021	E-2	SIMMERMAN JEREMIA	SAW MILL	251	1000	STEAM	8	3	70	500	600	100
0021	E-1	MOYER JACOB A	SAW MILL	251	1000	WATER	20	2	100	400	500	100
0018	E-1	GREENWOOD JAMES	SAW MILL	251	500	STEAM	12	2	100	150	300	150
0018	D-1	SPRINGSTEAD JACOB	SHINGLE MILL	251-S	600	STEAM	10	2	60	40	150	110
					=====		=====		=====	=====	=====	=====
					64920		870	156	25051	74659	125495	50836

## LINCOLN COUNTY: PLANING MILLS BY VALUE OF OUTPUT, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	B-3	DOLSON	PLANING MILL	254	6000	STEAM	15	40	13000	14600	29000	14400
0021	B-3	WILSON	CARPENTER/JOINER	254	5000		.	10	4600	1800	7600	5800
0021	B-3	MCCORMACK	CARPENTER/JOINER	254	1100		.	9	3000	1200	5400	4200
0021	B-1	SWORD	CARPENTER WORK	254	150	WATER	2	4	900	2000	3500	1500
0021	B-3	THOMPSON & NESS	CARPENTER SHOP	254	.		.	6	1800	400	3000	2600
0021	A-3	PARNALL WILLIAM	SASH/DOOR/PLANIN	254/251	8000	WATER	30	4	1200	200	2000	1800
0021	F-1	MCKAY	ALEXAND CARPENTER SHOP	254	200		.	3	300	72	400	328
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					20450		47	76	24800	20272	50900	30628



LINCOLN COUNTY: COOPERS BY VALUE OF OUTPUT, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	B-1	NORRIS	COOPERAGE	259-C	6000	.	.	25	9000	16000	28000	12000
0021	B-4	NEELON	COOPER SHOP	259-C	5000	.	.	25	6000	18200	26250	8050
0021	B-4	BEGGY	COOPERING EST	259-C	1000	.	.	7	2000	2500	5500	3000
0021	A-2	PATTERSON	COOPER ESTABLISH	259-C	250	.	.	6	900	1432	2800	1368
0021	D-1	PATTERSON	COOPER SHOP	259-C	150	.	.	2	800	1010	2100	1090
0021	D-2	WISMER	COOPER SHOP	259-C	70	.	.	3	300	760	1420	660
0021	F-2	SALEY	COOPER SHOP	259-C	200	.	.	4	400	450	1000	550
0021	D-2	OVERHOLT	COOPER SHOP	259-C	150	.	.	2	350	330	720	390
0021	C	BLACK	COOPER SHOP	259-C	400	.	.	1	260	450	660	210
0021	A-2	YORK	COOPER ESTABLISH	259-C	330	.	.	2	300	200	500	300
0021	E-2	ROSS	COOPER SHOP	259-C	6	.	.	3	150	75	450	375
0018	D-2	HARMON	COOPERAGE	259-C	50	.	.	1	.	30	300	270
0021	E-2	BOUGHNER	COOPER SHOP	259-C	35	.	.	1	100	55	200	145
0021	D-2	MOFFAT	COOPER SHOP	259-C	25	.	.	1	65	91	144	53
0021	D-2	OVERHOLT	COOPER SHOP	259-C	30	.	.	1	90	55	140	85
0021	D-2	HIGH	COOPER SHOP	259-C	225	.	.	1	.	19	34	15
0021	E-2	ABRAM	COOPER/CARPENTER	259-C/421-C	20	.	.	1	20	19	32	13
0021	E-2	KING	COOPER SHOP	259-C	.	.	.	1	20	14	30	16
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					13941		0	87	20755	41690	70280	28590

LINCOLN COUNTY: FURNITURE SHOPS BY VALUE OF OUTPUT, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	B-2	MCINTYRE & SON	CABINetry/UNDERT	261/258	1000	WATER	.	17	5200	1500	12000	10500
0021	B-2	GROBB & HARLEY	CABINETMAKER	261	3000	WATER	.	7	2500	3200	8000	4800
0021	B-2	KIRBY	CABINET FACTORY	261	.	.	.	5	1950	2300	4250	1950
0021	B-2	ALLAN & BRO	CABINETMAKER	261	1200	.	.	4	1200	1800	3600	1800
0021	B-2	SCHMIDT	SIMON C CABINET SHOP	261	1560	.	.	4	1100	1380	1925	545
0021	B-2	HIGMAN	WILLIAM CABINET SHOP	261	300	.	.	3	1000	500	1725	1225
0021	A-3	MELOCKER	CHAIR/BEDSTEAD	F 261	400	WATER	6	4	932	450	1700	1250
0021	F-1	MOORE	CABINET SHOP	261	200	.	.	1	600	200	800	600
0018	E-1	WILLIAMS	CABINET SHOP	261/258	200	.	.	1	400	100	700	600
0021	A-3	SMITH	CABINET SHOP	261	120	.	.	1	425	130	700	570
0021	B-1	DRAY	CABINETMAKING	261	.	.	.	1	.	200	600	400
0021	D-2	HOUSER	CABINET SHOP	261	250	.	.	1	150	100	600	500
0021	F-2	ROWL	CABINET SHOP	261	.	.	.	1	150	60	600	540
0021	E-2	KILBORN	CABINET SHOP	261	400	.	.	1	400	100	500	400
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					8630		6	51	16007	12020	37700	25680

LINCOLN COUNTY: ALL METAL-FABRICATING BY VALUE OF OUTPUT, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	B-1	TUTTLE DATE & ROD	AGRC HAND TOOLS	306	75000	WATER	350	120	55000	36000	137000	101000
0021	B-2	SMITH	SAW FACTORY	306-S	25000	STEAM	18	31	18000	35000	55000	20000
0021	A-3	COLLINSON & BURCH	CANADA KNIFE WOR	306-C/311	15000	W/S	45	21	6500	10000	25000	15000
0021	B-1	BURROW/CHATFIELD/	SHEET METAL WORK	304-T	1000			18	4000	10000	20000	10000
0021	B-1	YALE & CO	TINSMITH	304-T	1000			8	3000	4000	8000	4000
0021	B-2	HOWSE	TIN/COPPERSMITH	304-T	5000			6	2000	3000	6000	3000
0021	B-2	RATCLIFFE & PARNE	TINWARE MANUFACT	304-T	250			4	2500	1000	5000	4000
0021	E-2	HEARLE WILLIAM	TIN SHOP	304-T	1800			2	780	1200	3000	1800
0021	B-2	MCKELVEY	TINSMITH	304-T	150			5	800	1000	2000	1000
0021	C	HENRY	BLACKSMITH SHOP	309	500			2	600	300	1500	1200
0021	F-1	MIHELL	TIN SHOP	304-T	500			1	620	600	1200	600
0021	B-2	MCLEAN	TIN/COPPER STORE	304-T	300			1	300	300	800	500
0021	C	HOUSE	TIN SHOP	304-T	500			1		50	800	750
0020	C	CLEMENT	TIN/COPPERSMITH	304-T	75			1	400	480	750	270
0021	C	GRIFFIN	BLACKSMITH SHOP	309	700			2	450	150	700	550
0021	F-2	BRANT GEORGE	TIN SHOP	304-T	75			1	150	200	650	450
0021	B-3	MCGLASHAN ALEXAND	TIN SHOP	304-T	75			1		245	500	255
0021	E-1	HAGERMAN DANIEL	BLACKSMITH SHOP	309	80			1	400	80	500	420
0021	B-2	PALMER	LOCKSMITH SHOP	309-S				1	170	25	200	175
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					126930		413	227	95670	103630	268600	164970

LINCOLN COUNTY: MACHINERY PRODUCERS BY VALUE OF OUTPUT, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	E-2	HARRIS A & SON	AGRC IMPLEMENT M	311	5000	STEAM	15	21	8000	12200	50000	37800
0021	B-2	OILLE	FOUNDRY/MACHINE	315	18000	STEAM	12	50	16000	6000	30000	24000
0021	B-2	ABBOTT	SEWING MACHINE F	315-S	10000	STEAM	3	12	6000	3000	20000	17000
0021	B-3	COLLIER	AGRC IMPLEMENT F	311	10000	STEAM	15	20	7200	7200	20000	12800
0021	F-1	GROUT	AGRC IMPLEMENT M	311	8000	STEAM	8	14	3600	3365	10000	6635
0021	F-2	RUSS WILLIAM	FOUNDRY	311	2000	STEAM	16	7	2000	1500	4500	3000
0021	B-2	MILLS	PUMP FACTORY	315-P	2000	WATER	4	3	1200	800	2700	1900
0021	B-2	CHANDLER ABEL M	FOUNDRY/MACHINE	315	3000	STEAM	15	3	1200	600	2000	1400
0021	E-2	MARTELL EZEKIEL	AGRC IMPLEMENT F	311	100			2	450	325	1500	1175
0021	A-3	STEPHENSON ROBERT	PUMPMAKER	315-P	350	HORSE	4	2	500	200	900	700
0021	B-3	CLARK	SMUT MILLS	311	100			2	400	200	750	550
0021	D-2	DISHER PETER	BLACKSMITH FORGE	311	50			2		65	572	507
0021	F-2	FIELD HIRAM	PUMP MANUFACTURE	315-P	100			1	300	50	450	400
0021	A-2	HADGLEY S & L	DOG POWER CHURNS	315	100			2		35	200	165
0021	D-1	BURCH WILLIAM	PUMP FACTORY	315-P	100			1		20	200	180
0021	D-2	SPRINGER AARON	CARPENTER SHOP	311/261	200			1		35	70	35
					=====							
					59000		92	143	46850	35595	143842	108247

## LINCOLN COUNTY: RAILWAY SHOPS BY VALUE OF OUTPUT, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	B-4	WELLAND RAILWAY C MACHINE SHOP		326		STEAM	12	14	5500	1500	7200	5700
					0		12	14	5500	1500	7200	5700

## LINCOLN COUNTY: SHIP &amp; BOAT BUILDERS BY VALUE OF OUTPUT, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	B-1	SHICKLUNA LEWIS	SHIP BUILDING YA	327	20000	WATER	50	82	25000	15000	48000	33000
0021	C	MUIR ALEX & BROS	SHIP BUILDING ES	327	9000			60	22960	12000	39000	27000
0021	C	ANDREWS S & SON	SHIP BUILDING ES	327	12000	WATER	20	42	18000	1000	30000	29000
0021	B-1	ROSS GEORGE	BLACKSMITH	327/896	1000			3	600	500	3000	2500
0021	C	ABBY ALEXAND	BOAT BUILDING ES	328				3	650	300	950	650
0021	C	RUDMAN THOMAS	BLOCK FACTORY	327-M	150			0		400	900	500
0021	C	MCPHIE ARCHIE	BOAT BUILDING ES	328				1		30	240	210
					42150		70	191	67210	29230	122090	92860

## LINCOLN COUNTY: MISCELLANEOUS MANUFACTURES BY OUTPUT, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	E-1	WISMER JACOB	BROOM FACTORY	399-B	150			3	450	1400	2520	1120
0021	E-2	HANN ISAAC	BROOM MAKING	399-B	200			4	160	512	1200	688
0021	E-1	MOYER JACOB	BROOM FACTORY	399-B	100			2	400	500	1100	600
0021	D-2	KRATZ CHRISTIAN	BROOM FACTORY	399-B	320			3	324	315	675	360
0021	E-2	MOYER JACOB I	BROOM MAKING	399-B	25			2	100	250	666	416
0020	C	HOSKINS NELSON	CORN BROOM MF	399-B	50			2	250	300	600	300
0021	E-1	MARTIN MICHAEL	BROOM FACTORY	399-B	150			1	100	400	600	200
0021	E-1	MOYER A S	BROOM FACTORY	399-B	100			1	130	200	500	300
0021	D-2	KRATZ ABRAM	BROOM FACTORY	399-B	150			1		170	330	160
0021	B-1	MADDEN MRS D D	HAIR ESTABLISHM	399-W				2		200	300	100
0021	D-2	KRATZ JACOB	BROOM FACTORY	399-B	100			2		30	105	25
					1345		0	23	1914	4327	8596	4269



## LINCOLN COUNTY: CARRIAGE/WAGON SHOPS BY VALUE OF OUTPUT, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	B-4	MCKINLEY R & CO	CARRIAGE WOODWOR	329-P	26000	STEAM	40	60	21000	30000	85000	55000
0021	A-3	PATTERSON H & CO	SPOKE/BENDING FC	329-P	6000	W/S	20	20	7000	15000	50000	35000
0021	B-2	SMITH GEORGE	CARRIAGE SHOP	329	8000			21	6240	6550	15000	8450
0021	E-2	KERR W & SON	CARRIAGE FACTORY	329	6000			15	5000	4000	12000	8000
0021	B-1	HOLMES & GREENWO	CARRIAGE/WAGON E	329	1000			15	3323	2000	10000	8000
0021	F-2		CARRIAGE SHOP	329	1000			12	2625	2500	5620	3120
0021	E-2	BENNETT JAMES	CARRIAGES/BLACKS	329	100			10	1100	2000	4900	2900
0021	D-2	PETTY JOHN H	CARRIAGE FACTORY	329	500			7	1632	600	3800	3200
0021	F-1	VANDYKE J & G	CARRIAGE FACTORY	329	2000			7	1600	1500	3722	2222
0021	E-2	WALKER WELLINGTON	CARRIAGE FACTORY	329	300			5	1000	1500	3630	2130
0021	E-1	HIPPLE JOHN	WAGON SHOP	329	500	HORSE	2	5	2000	520	3000	2480
0021	B-3	MCELROY NEIL	WAGON FACTORY	329	2000			3	1000	555	2650	2095
0021	A-3	REYNOLDS B G	BLACKSMITH/CARRI	329	625			5	1250	750	2500	1750
0021	A-1	HAMMILL WILLIAM J	CARRIAGE FACTORY	329	1000			3	1000	160	2000	1840
0018	E-2		CARRIAGE FACTORY	329	1000			3	1000		1875	
0020	B	PLATT WILLARD	WAGONMAKER	329	600			4	400	105	1800	1695
0020	A-1	KIRKLAND GEORGE	WAGONMAKER SHOP	329	200			1		800	1500	700
0020	A-1	PENDERGAST JOHN &	BLACKSMITH/WAGON	329/896	200			1		570	1000	430
0020	A-2	WALKER FRANCIS	WAGON/CARRIAGE S	329	250			1		150	1000	850
0021	A-1	RICHARDSON WILLIA	WAGON SHOP	329	150			1	600	125	820	695
0018	E-2	SWEAZY WILLIAM	CARRIAGE FACTORY	329	500			2	100		760	
0020	A-1	STAULER JOHN	WAGONMAKER SHOP	329	100			1		200	500	300
0018	D-2	SMYE RICHARD ?	WAGON SHOP	329	600			1	60	120	480	360
0021	E-2	MORRIS GEORGE	WAGON SHOP	329	20			2	100	150	410	260
0018	D-2	CULP SOLOMON	CARRIAGE SHOP	329	200			1		25	200	175
0018	E-1	KINNY WILLIAM	WAGON SHOP	329	200	STEAM	8	1	150	20	100	80
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					59045		70	207	58180	69900	214267	141732

## LINCOLN COUNTY: BUILDERS/CONTRACTORS BY VALUE OF OUTPUT, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	B-2	DOUGAN JAMES	CARPENTER/BUILDE	421-C	3000			25	10000	10000	25000	15000
0021	B-2	BALD & DYER	CARPENTER SHOP	421-C				6	2808	7626	10771	3145
0021	B-3	MCNEIL JAMES	CARPENTER SHOP	421-C	100			12	3900	5366	10000	4634
0021	B-1	RIDDELL WM E	BUILDER	421-S				9	2500	4000	8000	4000
0021	B-1	BALL DYER	CARPENTER WORK	421-C	150			9	3000	3000	8000	5000
0021	B-3	SWITZER EDWIN	CARPENTER SHOP	421-C	100	HORSE	1	9	3000	3840	7500	3660
0021	B-2	BEGY FRANCIS	PAINT SHOP	421-D	1500			9	2500	1700	4500	2800
0021	B-2	REA & BOYLE	PAINT SHOP	421-D				6	1700	1100	2800	1700
0021	B-2	ORR JAMES	PAINT SHOP	421-D				14	1600	1000	2600	1600
0021	B-1	SPARROW GEORGE	MASON	421-S/421-L	50			2	400	800	1800	1000
0020	C	DAVIDSON JOHN	CARPENTER SHOP	421-C	1000	HORSE	2	2	500	600	1500	900
0021	B-1	O'DONNELL THOS	PAINTER	421-D	75			3	500	500	1200	700
0020	B	THORNTON JOHN	BRICKLAYER	421-S				2	1260	250	800	550
0021	E-2	CALLADAY JACOB	JOINER SHOP	421-C	150			1	150	40	250	210
					=====			=====	=====	=====	=====	=====
					6125		3	109	33818	39822	84721	44899

## LINCOLN COUNTY: BRICK/MARBLE/LIME WKS BY VALUE OF OUTPUT, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	A-3	CORBIN D W	BRICK YARD	351-B	3000	HORSE	5	30	4950	200	12500	12300
0021	B-4	GADSBY ELI	MARBLE FACTORY	353	2000		.	5	2800	5000	11000	6000
0021	B-1	BENFIELD W S	BRICK FACTORY	351-B	250	HORSE	2	20	3000	200	3500	3300
0021	A-3	MILLWARD CHARLES	BRICK YARD	351-B	2500	HORSE	3	10	1190	.	3000	.
0021	B-2	BARON WILLIAM	MARBLE CUTTING S	353	500		.	2	1000	2000	3000	1000
0021	A-3	GOODINOW JOSEPHUS	BRICK YARD	351-B	600	HORSE	2	8	900	.	2500	.
0021	E-2	LITTLE CYRUS	POTTERY	351-P	450		.	4	250	65	1675	1610
0021	D-2	BALL GEORGE P M	LIME KILN	358-L	50		.	2	400	125	928	803
0021	A-3	BRYANT MARK	BRICK YARD	351-B	800	HORSE	2	9	550	200	900	700
0021	E-1	MOYER E N	BRICK KILN	351-P	300	HORSE	1	4	400	.	800	.
0021	E-1	ORTH DANIEL	POTTERY	351-P	300		.	1	245	200	800	600
0021	D-1	BEAL JOHN	LIME KILN	358-L	25		.	2	40	300	750	450
0021	E-2	SCHWAB WILLIAM	POTTERY	351-P	200		.	2	320	72	700	628
0021	D-2	MORGAN WM	LIME KILN	358-L	50		.	2	200	60	675	615
0021	D-2	BALL GEORGE P M	LIME KILN	358-L	50		.	1	250	84	630	546
0021	F-2	NELSON THOMAS	LIME KILN	358-L	100		.	2	240	35	525	490
0021	B-1	BELTON WM	BRICK FACTORY	351-B	.	HORSE	1	8	300	100	500	400
0021	E-2	TALMAN OLIVER	LIME KILN	358-L	50		.	2	130	30	375	345
0021	D-2	HART RAUSFORD	LIME KILN	358-L	50		.	2	250	40	360	320
0021	E-2	TALMAN WILLIAM	LIME KILN	358-L	150		.	2	150	50	350	300
0021	D-2	NEUEMAKER JOHN	LIME KILN	358-L	50		.	1	.	37	180	143
0021	F-1	CALDER IRA	LIME KILN	358-L	25		.	1	30	40	70	30
0021	D-2	FEY ABRAHAM	LIME KILN	358-L	50		.	1	.	16	56	40
					=====			=====		=====	=====	=====
					11550		16	121	17595	8854	45774	30620

## LINCOLN COUNTY: OIL REFINERIES BY VALUE OF OUTPUT, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	A-3	VON POHENHOFF A R	OIL REFINERY	365	25000	STEAM	20	15	8000	40000	135000	95000
0021	A-2	LEAVENWORTH T & T	ROCK OIL REFINER	365	500	HORSE	1	2	300	450	1500	1050
					=====			=====		=====	=====	=====
					25500		21	17	8300	40450	136500	96050

## LINCOLN COUNTY: CHEMICAL WORKS BY VALUE OF OUTPUT, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	B-4	BISHOPRICK JAMES	SOAP/CANDLE FACT	376/378-P	5000		.	5	1400	16800	19530	2730
0021	B-4	CLONEY THOMAS	POTASH FACTORY	378-P	500		.	5	1500	1600	5400	3800
0021	F-2	ROBERTS W A & M L	ASHERY	378-P	1500		.	7	1680	1250	5000	3750
0021	A-3	KING JOSEPH	TALLOW CHANDLER	376	300		.	1	300	2100	3500	1400
0021	B-1	BEETON WM B &	CHEMIST/DRUGGIST	374	.		.	4	450	600	2000	1400
0021	B-1	GREENWOOD W W	CHEMIST/DRUGGIST	374	1000		.	4	600	500	2000	1500
0021	B-1	MILLS JAMES J	CHEMIST/DRUGGIST	374	.		.	3	500	500	1000	500
0021	B-3	LANE WILLIAM	DRUG SHOP	374	700		.	1	.	500	900	400
0021	B-1	BOYLE ARTHUR	CHEMIST/DRUGGIST	374	.		.	1	100	500	700	200
					=====			=====		=====	=====	=====
					9000		0	31	6530	24350	40030	15680

## LINCOLN COUNTY: BLACKSMITHS BY VALUE OF OUTPUT, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	B-2	WALES	BLACKSMITH	FORGE	896	500	.	6	1900	1000	3700	2700
0021	A-3	MCKONCKIN	BLACKSMITH	SHOP	896	600	.	2	450	1400	2500	1100
0018	E-2	STEWART	BLACKSMITH	SHOP	896	380	.	4	80	800	2000	1200
0021	B-4	MANNE	BLACKSMITH	SHOP	896	400	.	2	800	400	2000	1600
0021	B-4	GIBSON	BLACKSMITH	SHOP	896	400	.	2	900	250	2000	1750
0021	A-1	WOOD JOHN	BLACKSMITH	FORGE	896	150	.	2	850	400	1500	1100
0021	A-3	PHELPS & PHELPS	BLACKSMITH	SHOP	896	150	.	3	600	600	1400	840
0021	F-2	COUSE MOSES H	BLACKSMITH	FORGE	896	400	.	2	600	150	1400	1250
0021	B-1	MCCARTY E	HORSESHOEING	896	350	.	.	2	365	150	1200	1050
0021	D-2	ZIMMERMAN PETER	BLACKSMITH	FORGE	896	300	.	2	300	261	1200	939
0021	F-2	GRASSIE JOHN	BLACKSMITH	FORGE	896	.	.	2	600	300	1200	900
0020	A-1	PENDERGAST THOMAS	BLACKSMITH	SHOP	896	100	.	1	.	600	1100	500
0020	A-2	WALKER FRANCIS	BLACKSMITH	FORGE	896	200	.	1	350	250	1000	750
0021	E-2	SHEPHERD	BLACKSMITH	FORGE	896	100	.	1	500	70	1000	930
0021	E-2	WALKER WILLIAM	BLACKSMITH	SHOP	896	300	.	2	700	400	1000	600
0021	A-1	PARSONAGE THOMAS	BLACKSMITH	FORGE	896	.	.	2	540	200	960	760
0020	B	SHERWOOD	BLACKSMITH	SHOP	896	100	.	1	26	150	950	800
0021	A-3	DELANEY	BLACKSMITH	SHOP	896	150	.	2	486	250	900	650
0021	F-1	BUSKIRK	BLACKSMITH	FORGE	896	200	.	2	540	150	900	750
0018	D-1	DOAK SAMUEL	BLACKSMITH	FORGE	896	400	.	1	500	150	800	650
0018	E-1	LUNDY JOHN	BLACKSMITH	SHOP	896	300	.	1	400	120	800	680
0020	C	MACKIN	BLACKSMITH	SHOP	896	150	.	3	160	175	800	625
0020	C	MONRO	BLACKSMITH	SHOP	896	100	.	1	150	160	800	640
0021	E-2	GILMOUR WARNER	BLACKSMITH	SHOP	896	25	.	1	360	70	700	630
0021	E-2	CULP ANTHONY	BLACKSMITH	SHOP	896	100	.	1	400	45	700	655
0021	F-1	TUFFORD TILLMAN	BLACKSMITH	FORGE	896	100	.	1	500	50	700	650
0021	E-1	CRUMP B ?	BLACKSMITH	SHOP	896	150	.	2	400	120	600	480
0021	F-2	PICTEN ALFRED	BLACKSMITH	FORGE	896	100	.	1	200	100	600	500
0021	F-1	DECOO CHARLES	BLACKSMITH	FORGE	896	150	.	3	175	175	514	339
0018	D-2	BLACK DAVID	BLACKSMITH	FORGE	896	125	.	1	150	30	500	470
0021	E-2	COUSE IRA C	BLACKSMITH	SHOP	896	40	.	1	150	18	500	482
0018	D-2	TISDALE JAMES	BLACKSMITH	FORGE	896	150	.	1	150	100	300	200
0018	D-2	WILCOX DANIEL	BLACKSMITH	FORGE	896	50	.	1	.	25	300	275
0021	D-2	TANSEY MICHAEL	BLACKSMITH	FORGE	896	20	.	2	150	20	300	280
0018	D-2	WARREN THOMAS	BLACKSMITH	FORGE	896	20	.	1	150	20	200	180
0018	D-2	CHASE EBENEZER	BLACKSMITH	SHOP	896	25	.	1	.	200	200	.
0021	D-1	MCKENZIE ALEXANDE	BLACKSMITH	SHOP	896	200	.	1	120	30	150	120
0021	D-1	BLAIR JOHN	BLACKSMITH	SHOP	896	100	.	1	80	20	100	80
0021	E-2	WISMER WILLIAM	BLACKSMITH	FORGE	896	70	.	1	60	20	100	80
0021	E-2	LYNDERBERY JOHN H	BLACKSMITH	FORGE	896	25	.	1	40	11	75	64
0021	D-1	MCINTIE PETER	BLACKSMITH	SHOP	896	100	.	1	40	10	50	40
0020	A-1	KILLMER NELSON	BLACKSMITH	SHOP	896	200	.	1	.	.	.	.
					7480	0	70	14772	9250	37739	28289	



Table A-5: Lincoln County: Firms Using Inanimate Power, 1871

LINCOLN COUNTY: FIRMS USING INANIMATE POWER, 1871												
CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
00021	B-1	TUTTLE DATE & ROD	AGRC HAND TOOLS	306	75000	WATER	350	120	55000	36000	137000	101000
00018	D-2	LYMBURNER & LAFFE	SAW MILL	251	20	WATER	300	2	50	1500	2000	500
00021	A-3	GORDON & MACKAY	LYBSTER COTTON M	181	150000	WATER	250	200	36000	66000	150000	84000
00021	A-3	RIORDAN JOHN	PAPER MILLS	271	156000	WATER	200	100	30000	70000	160000	90000
00021	B-4	NEELON SYLVEST	FLOUR MILL	105	25000	WATER	150	20	8000	385000	447120	62120
00021	A-3	WAIT WILLIAM	COTTON MILLS	181	30000	WATER	120	75	11000	55000	75000	20000
00021	B-1	NORRIS JAMES	FLOUR MILLS	105	45000	WATER	120	25	10000	575000	640000	65000
00021	F-2	EDMONDS EBENEZER	GRIST MILL	105	700	STEAM	60	2	600	13000	15000	2000
00021	A-3	SMITH WM S	MERRITTON FLOUR	105	300	WATER	50	3	500	20000	28000	8000
00021	A-3	PHELPS N & O J	SAW MILL	251	6000	WATER	50	10	2000	4800	7800	3000
00021	B-1	SHICKLUNA LEWIS	SHIP BUILDING YA	327	20000	WATER	50	82	25000	15000	48000	33000
00021	B-1	NORRIS & CO	FLOUR MILLS	105	10000	WATER	50	9	2000	140600	150000	9400
00021	A-3	REYNOLDS B G	SAW MILL	251	5000	WATER	45	3	900	1500	3500	2000
00021	A-3	COLLINSON & BURCH	CANADA KNIFE WOR	306-C/311	15000	W/S	45	21	6500	10000	25000	15000
00021	A-3	SMITH JOHN B	COOPER/HEADING F	251	300	WATER	40	3	700	2500	5000	2500
00021	A-3	DISHER & HAIGHT	WOOLEN MILL	182	20000	WATER	40	22	3800	10850	22000	11150
00021	B-4	MCKINLEY R & CO	CARRIAGE WOODWOR	329-P	26000	STEAM	40	60	21000	30000	85000	55000
00021	A-3	PARNALL WILLIAM	SASH/DOOR/PLANIN	254/251	8000	WATER	30	4	1200	200	2000	1800
00021	A-3	SIMPSON THOMAS	DOMINION FLOUR M	105	5000	WATER	30	2	600	10830	14257	3427
00021	B-4	GILLESPIE & SIMPS	SAW MILL	251	5000	WATER	30	16	4000	19000	25000	6000
00021	E-1	HUNTSMAN ADAM	SAW MILL	251	1200	WATER	30	6	540	1060	1680	620
00021	D-1	ADAMS WILLIAM	SAW MILL	251	1200	WATER	28	3	200	1250	1500	250
00018	D-1	SMITH & MELICK	GRIST MILL	105	3000	W/S	25	1	250	1500	1750	250
00018	D-1	SMITH & MELICK	SAW MILL	251	4000	W/S	25	3	750	3000	3000	0
00020	A-1	HUME I G	GRIST MILL	105	700	WATER	25	1	7000	7000	10000	3000
00021	D-2	BALL GEORGE P M	GRIST MILL	105	4000	WATER	25	2	400	13600	15975	2375
00021	F-1	GURNEY & NELLES	FLOUR MILL	105	5000	STEAM	25	2	700	14000	16000	2000
00018	E-1	KERR ROBERT	GRIST MILL	105	4000	STEAM	24	2	700	15000	20000	5000
00021	E-1	DEAN ANDREW	FLOUR MILL	105	6000	STEAM	24	3	800	9750	11560	1810
00018	E-2	DEVIT JOSEPH	SAW MILL	251	2500	STEAM	20	4	700	3500	7200	3700
00020	A-1	WILCOX EDWARD	GRIST MILL	105	400	WATER	20	1	8000	5000	7500	2500
00021	A-3	VON POHENHOFF A R	OIL REFINERY	365	25000	STEAM	20	15	7000	40000	135000	95000
00021	A-3	PATTERSON H & CO	SPOKE/BENDING FC	329-P	6000	W/S	20	20	7000	15000	50000	35000
00021	B-4	HELLEMS & JACKSON	PLANING MILL	251	7000	STEAM	20	17	4000	10000	18000	8000
00021	C	LAWRIE JOHN	FLOUR/GRIST MILL	105	6000	WATER	20	5	1380	33000	40000	7000
00021	C	ANDREWS S & SON	SHIP BUILDING ES	327	12000	WATER	20	42	18000	1000	30000	29000
00021	E-1	MOYER JACOB A	SAW MILL	251	1000	WATER	20	2	100	400	500	100
00021	E-2	BOWSLAUGH WILLIAM	SAW MILL/AG IMPL	251/311	3000	STEAM	20	12	4000	4800	9725	4925
00021	F-1	BEAMER JOHN	SAW MILL	251	1000	STEAM	20	4	345	850	1600	750
00021	F-1	SMITH R H	SAW MILL	251	400	WATER	20	2	120	370	700	330
00021	B-2	BOOK ISAAC	SAW FACTORY	306-S	25000	STEAM	18	31	18000	35000	55000	20000
00018	D-1	KENNY ROBERT	GRIST MILL	251	1200	STEAM	16	3	250	3200	4000	800
00021	E-2	RUSS CYRUS	SAW MILL	105	4500	STEAM	16	3	1150	17556	20179	2623
00021	F-1	RUSS WILLIAM	FOUNDRY	311	3500	STEAM	16	10	800	1029	2540	1511
00021	F-2	JOHNSON JEREMIAH	SAW MILL	251	2000	STEAM	16	7	2000	1500	4500	3000
00018	D-2	CHANDLER ABEL M	GRIST MILL	105	2000	WATER	15	6	96	1500	6000	4500
00020	A-1	DOLSON SAMUEL	PLANING MILL	254	3000	STEAM	15	1	1200	3000	4000	1000
00021	B-2	COLLIER HENRY	AGRC IMPLEMENT F	311	6000	STEAM	15	3	13000	600	2000	1400
00021	B-3	BALL GEORGE PM	SAW MILL	251	10000	STEAM	15	40	7200	14600	29000	14400
00021	D-2	BALL GEORGE PM	SAW MILL	251	3000	WATER	15	20	1000	7200	20000	12800
00021	D-2	BALL GEORGE P M	SAW MILL	251	3000	WATER	15	6	2500	2500	4000	1500
00021	D-2	BALL GEORGE P M	SAW MILL	251	3000	WATER	15	7	1000	2500	4000	1500

## LINCOLN COUNTY: FIRMS USING INANIMATE POWER, 1871

CDID	CFD	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	E-2	HARRIS A & SON	AGRC IMPLEMENT M	311	5000	STEAM	15	21	8000	12200	50000	37800
0021	F-1	WILSON WILLIAM	SAW MILL	251	3000	STEAM	15	3	850	800	2000	1200
0021	F-1	WILSON WILLIAM	GRIST MILL	105	3000	STEAM	15	3	850	4367	5430	1063
0018	E-2	MCDONALD JOHN	SAW MILL	251	2000	STEAM	14	3	500	2000	4000	2000
0020	B	SWINTEN DAVID	CARPENTER SHOP	259	400	STEAM	14	5	2700	1350	4600	3250
0018	E-1	TANNER WILLIAM	SAW MILL	251	1500	STEAM	12	7	250	1000	1800	800
0018	E-1	GREENWOOD JAMES	SAW MILL	251	500	STEAM	12	2	100	150	300	150
0021	B-2	OILLE G & J	FOUNDRY/MACHINE	315	18000	STEAM	12	50	16000	6000	30000	24000
0021	B-4	WELLAND RAILWAY C	MACHINE SHOP	326		STEAM	12	14	5500	1500	7200	5700
0021	E-1	HUNTSMAN JOHN	SAW MILL	251	1000	STEAM	12	4	600	900	1800	900
0021	F-2	PATTERSON WILLIAM	SAW MILL	251	1000	STEAM	12	3	450	1800	2500	700
0018	D-1	SPRINGSTEAD JACOB	SHINGLE MILL	251-S	600	STEAM	10	2	60	40	150	110
0018	D-2	LYMBURNER ALLEN	SAW MILL	251	1200	WATER	10	2	140	560	1200	640
0018	E-1	KERR ROBERT	SAW MILL	251	600	WATER	10	2	180	600	1300	700
0021	B-1	YALE & CO	FOUNDRY	294/315-E	18000	STEAM	10	25	8000	10000	25000	15000
0021	B-2	BECKETT WILLIAM	CLOTH FACTORY	182	3500	WATER	10	9	1500	2000	4100	2100
0021	E-1	EDDY EDWIN	SAW MILL	251	700	STEAM	10	3	150	300	600	300
0018	E-1	KINNY WILLIAM	WAGON SHOP	329	200	STEAM	8	1	150	20	100	80
0021	B-1	TAYLOR & BATE	BREWERY	109-B	10000	STEAM	8	12	4380	12500	22000	9500
0021	B-2	MESLER & PLUMSTE	CARPENTER/JOINER	256/259	1100	STEAM	8	4	1000	1360	3552	2192
0021	B-4	WOOD JAMES	TANNERY	172	2000	STEAM	8	5	2000	3000	9000	6000
0021	E-1	MOYER W W & CO	CIGAR/TOBACCO MF	153	1600	STEAM	8	8	1580	985	3480	2495
0021	E-2	SIMMERMAN JEREMIA	SAW MILL	251	1000	STEAM	8	3	70	500	600	100
0021	F-1	GROUT JOHN	AGRC IMPLEMENT M	311	8000	STEAM	8	14	3600	3365	10000	6635
0021	A-3	MELOCKER MICHAEL	CHAIR/BEDSTEAD F	261	400	WATER	6	4	932	450	1700	1250
0021	D-2	CLARK S ?	TANNERY	172	1000	STEAM	6	1	300	1000	2000	1000
0021	A-3	CORBIN D W	BRICK YARD	351-B	3000	HORSE	5	30	4950	200	12500	12300
0021	A-3	STEPHENSON ROBERT	PUMPMAKER	315-P	350	HORSE	4	2	500	200	900	700
0021	B-1	GRANT WM & CO	PUBLISHING/PRINT	289	7000	STEAM	4	9	3600	3100	12000	8900
0021	D-2	MILLS A & SON	PUMP FACTORY	315-P	2000	WATER	4	3	1200	800	2700	1900
0021	D-2	FRETZ DAVID	CIDER MILL	109-C	100	HORSE	4	1		180	320	140
0021	D-2	JOHNSON JACOB	CIDER MILL	109-C	50	HORSE	4	1		150	200	50
0021	E-2	DURHAM MATHIAS	CIDER MILL	109-C		HORSE	4	2	50	240	600	360
0021	E-2	DURHAM ISAAC	CIDER MILL	109-C	100	HORSE	4	3	60	400	1025	625
0021	A-3	MILLWARD CHARLES	BRICK YARD	351-B	2500	HORSE	3	10	1190		3000	
0021	B-2	ABBOTT JOHN W	SEWING MACHINE F	315-S	10000	STEAM	3	12	6000	3000	20000	17000
0020	C	DAVIDSON JOHN	CARPENTER SHOP	421-C	1000	HORSE	2	2	500	600	1500	900
0021	A-3	BRYANT MARK	BRICK YARD	351-B	800	HORSE	2	9	550	200	900	700
0021	A-3	GOODINOW JOSEPHUS	BRICK YARD	351-B	600	HORSE	2	8	900		2500	
0021	B-1	SWORD ROBERT	CARPENTER WORK	254	150	WATER	2	4	900	2000	3500	1500
0021	B-1	BENFIELD W S	BRICK FACTORY	351-B	250	HORSE	2	20	3000	200	3500	3300
0021	E-1	HIPPLE JOHN	WAGON SHOP	329	500	HORSE	2	5	2000	520	3000	2480
0021	A-2	LEAVENWORTH T & T	ROCK OIL REFINER	365	500	HORSE	1	2	300	450	1500	1050
0021	B-1	BELTON WM	BRICK FACTORY	351-B		HORSE	1	8	300	100	500	400
0021	B-3	SWITZER EDWIN	CARPENTER SHOP	421-C	100	HORSE	1	9	3000	3840	7500	3660
0021	E-1	MOYER E N	BRICK KILN	351-B	300	HORSE	1	4	400		800	
=====										=====	=====	=====
										868720	2851443	1023171
										1821972		
										401773		
										=====	=====	=====
										3016	1417	



Table A-6: Lincoln County: Firms Employing at least One Female in 1871

LINCOLN COUNTY: FIRMS EMPLOYING AT LEAST ONE FEMALE IN 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE FEMALE	WAGES	SUMRAWC	SUMPROC	VADD
0021	A-3	GORDON &	LYBSTER COTTON M	181	150000	WATER	250	36000	66000	150000	84000
0021	A-3	WAIT	COTTON MILLS	181	300000	WATER	120	11000	55000	75000	20000
0021	B-1	TAIT	JAMES D FUR/MANTLE MF	246	500		.	5500	9260	20000	10740
0021	B-1	BOLES	TAILOR/CLOTHING	242	800		.	14000	20000	37500	17500
0021	A-3	RIORDAN	PAPER MILLS	271	156000	WATER	200	30000	70000	160000	90000
0021	B-1	LEPPER	TAILOR/CLOTHING	242	200		.	5000	10000	20000	10000
0021	F-1	NIXON	FRUIT CANNING CO	103	2500		.	1000	1500	3500	2000
0021	A-3	DISHAR & HAIGHT	WOOLEN MILL	182	20000	WATER	40	3800	10850	22000	11150
0021	B-2	CARNALL	MILLINERY STORE	249-M	.		.	800	1000	2500	1500
0021	B-1	ARRONS	MILLINERY/MANTLE	244	.		.	1200	15000	20000	5000
0021	B-1	BARR	DRESSMAKER/MILLI	244	100		.	1600	10000	15000	5000
0021	B-2	LAUDER MISS JESSI	DRESSMAKER SHOP	244	70		.	240	3978	5226	1248
0021	E-2	JAMES HENRY S	MILLINERY/DRESSM	249-M	100		.	400	5000	6000	1000
0021	B-1	COOK	DRESSMAKING	244	.		.	200	2000	3000	1000
0021	B-1	SUTHERLAND	MILLINERY/MANTLE	249-M	.		.	600	4000	6000	2000
0021	E-2	OSBORN J B & SON	MILLINERY/DRESSM	244	.		.	200	1200	1800	600
0020	C	ROWLAND	MILLINERY EST	242	200		.	1000	5000	1000	1000
0021	B-1	MCCARTHY	DRESSMAKING	244	.		.	.	400	1000	600
0021	B-1	CONGLE	TAILOR/CLOTHIER	242	200		.	1500	3000	6000	3000
0021	B-1	COUPER & CRAIG	TAILOR/CLOTHIER	242	.		.	3500	14000	21000	7000
0021	B-1	PURVES	MILLINERY/MANTLE	244	100		.	600	5000	7000	2000
0021	B-1	ST JOHN	MANTLE MAKING	244	.		.	.	1500	2000	500
0021	B-1	REID	CLOTHING EST	242	50		.	600	2000	3000	1000
0021	B-1	MCMANARA	MILLINERY	249-M	.		.	200	2000	2500	500
0021	B-1	NESBIT	DRESSMAKER	244	.		.	500	5000	6500	1500
0021	B-1	HARRIS & BERSTON	CIGAR MANUFACTOR	153	150		.	3600	1200	10000	8800
0021	B-2	MCINTYRE & SON	CABINETRY/UNDERT	261	1000	WATER	.	5200	1500	12000	10500
0021	B-2	GWINNER	TAILOR SHOP	242	.		.	1000	2000	4000	2000
0021	B-2	SKINNER	DRESSMAKER SHOP	244	.		.	650	2080	2860	780
0021	B-1	MAHONEY THOS	TAILOR ESTABLISH	242	100		.	700	1200	3500	2300
0021	B-1	GILLESPIE J B	MILLINERY	249-M	100		.	750	5000	7000	2000
0021	B-1	ROBERTSON	DRESS/MANTLE EST	244	.		.	.	.	500	.
0021	B-1	HEALEY	BOOT/SOEMAKING	174	350		.	7000	8000	18000	10000
0021	B-1	STRUTHERS	TAILOR/MANTLES	242	500		.	1500	3500	5000	1500
0021	B-2	JACKSON JULIA	DRESSMAKER SHOP	244	.		.	200	1000	1500	500
0021	C	PHILLAMORE ELLEN	DRESS MAKING EST	244	40		.	70	150	250	100
0021	C	DENTON	TAILOR ESTABLISH	242	200		.	600	2200	3500	1300
0021	E-1	MOYER W W & CO	CIGAR/TOBACCO MF	153	1600	STEAM	8	1580	985	3480	2495
0021	F-2	ALLEN MARY JANE	WEAVING LOOM	182-W	.		.	200	150	450	300
0020	C	HEWITT WILLIAM	SHOEMAKER SHOP	174	200		.	1300	2700	4000	1300
0021	B-1	PAWLING WM	TRUNK/HARNES MF	179-T	100		.	500	1800	2500	700
0021	B-1	MADDEN	HAIR ESTABLISHME	399-W	.		.	3000	200	300	100
0021	B-1	CARLISLE HENRY	CLOTHING STORE	242	150		.	100	5000	12000	7000
0021	B-1	GREGORY ADELINE	MILLINERY	249-M	.		.	100	1000	1500	500
0021	B-1	PRESTON VIOLET	DRESSMAKER	244	.		.	8	400	600	200
0021	B-1	CLARK JANE	DRESSMAKING	244	.		.	.	.	200	.
0021	B-1	BATES	HAT CLEANING/REP	249-H	.		.	.	.	100	.
0021	B-2	SCHMIDT	CABINET SHOP	261	1560		.	1100	1380	1925	545
0021	B-2	BECKETT	WILLIAM CLOTH FACTORY	182	3500	WATER	10	1500	2000	4100	2100
0021	B-2	WALKER	MRS HEN MILLINER SHOP	244	50		.	480	750	1400	650
0021	B-3	MAXWELL	BAKERY	107	1000		.	700	6500	8000	1500
0021	B-3	CLARK	MILLINERY/DRESSE	249-M	.		.	100	300	450	150



## LINCOLN COUNTY: FIRMS EMPLOYING AT LEAST ONE FEMALE IN 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	FEMALE	WAGES	SUMRAWC	SUMPROC	VADD
0021	C	BOWMAN	DRESS MAKING	244	40	.	.	2	70	200	275	75
0021	C	ANDERSON	DRESSMAKER	244	.	.	.	2	90	300	600	300
0021	D-2	MOTTIS	TAILOR SHOP	242	100	.	.	2	150	1500	2200	700
0021	D-2	ZIMMERMAN	MILLINERY/DRESSM	244	50	.	.	2	55	700	1100	400
0021	E-2	SKELLEY	WEAVING LOOM	182-W	20	.	.	2	72	480	840	360
0021	E-2	ARNISS	BAKERY	107	400	.	.	2	400	1045	1545	500
0018	D-1	SPEARS	CHEESE FACTORY	104	600	.	.	1	300	5000	5552	552
0020	C	ROWLAND	MILLINERY SHOP	244	25	.	.	1	300	600	950	350
0021	A-3	MELOCKER	CHAIR/BEDSTEAD F	261	400	WATER	6	1	932	450	1700	1250
0021	A-3	PAGE	WEAVER	182-W	20	.	.	1	65	130	350	220
0021	B-1	CRAIG	PHOTOGRAPHIC ROO	893	500	.	.	1	.	400	1000	600
0021	B-1	LINDSAY	BOOT/SHOE STORE	174	500	.	.	1	2500	2200	6000	3800
0021	B-1	RILEY	DRESSMAKING	244	.	.	.	1	.	.	300	.
0021	B-1	GIBBS	DRESS/MANTLE MAK	244	.	.	.	1	400	400	1000	600
0021	B-1	GORDON	DRESSMAKING	244	.	.	.	1	.	600	700	100
0021	B-2	STOCKWELL	DYE SHOP	189-D	80	.	.	1	1000	80	1080	1000
0021	B-2	BRENNAN	BOOK BINDERY	287-B	700	.	.	1	1000	370	2000	1630
0021	B-2	SCHRAM	MILLINER/DRESSMA	244	.	.	.	1	.	70	100	30
0021	B-2	CLENCH	PHOTOGRAPHIC STU	893	1000	.	.	1	858	1500	4000	2500
0021	B-2	DACK	CONFECTIONER SHO	108-C	2000	.	.	1	800	2913	4139	1226
0021	B-2	MEADOWS	TEMPERANCE DRINK	109-S	400	.	.	1	780	3170	6180	3010
0021	B-3	BURR	MILLINER	249-M	.	.	.	1	18	100	150	50
0021	C	JOHNSON	BOOT/SHOEMAKER	174	100	.	.	1	960	1200	3000	1800
0021	C	ROSE	TAILOR ESTABLISH	243	60	.	.	1	50	.	50	.
0021	C	MCCALL	DRESS MAKING	244	50	.	.	1	.	.	250	.
0021	D-1	OSTERHOUT	WEAVER	182-W	20	.	.	1	.	120	300	180
0021	D-2	CLIME	WEAVING LOOM	182-W	10	.	.	1	.	400	475	75
0021	D-2	NEW	WEAVING LOOM	182-W	30	.	.	1	.	200	700	500
0021	D-2	MILLER	TAILOR	242	75	.	.	1	150	475	900	425
0021	D-2	PURDY	TAILOR ESTABLISH	243	.	.	.	1	.	500	750	250
0021	D-2	FOSTER	WEAVING LOOM	182-W	5	.	.	1	.	150	187	37
0021	E-1	JOHNSON	WEAVER	182-W	10	.	.	1	.	40	75	35
0021	E-2	WILCOX	WEAVING LOOM	182-W	15	.	.	1	30	190	280	90
0021	E-2	DEACONS	BASKETMAKING	256	.	.	.	1	30	.	30	.
0021	E-2	HODGE	TAILOR	242	100	.	.	1	375	1500	1900	400
0021	E-2	BOUGHNER	WEAVER	182-W	30	.	.	1	50	500	850	350
0021	E-2	KING	WEAVER	182-W	15	.	.	1	65	112	240	128
0021	F-1	PETTIT	CHEESE FACTORY	104	1500	.	.	1	100	1112	1356	244
0021	F-2	ADAMS	SHOE SHOP	174	600	.	.	1	600	600	1300	700
=====										=====	=====	=====
					380875	634	491	163478	401990	765045	361625	

Table A-7: Lincoln County: Firms by Name of Proprietor, 1871

LINCOLN COUNTY: FIRMS BY NAME OF PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0018	D-2		SHOE STORE	174	100			1	250	39	340	301
0018	E-2		CARRIAGE FACTORY	329	1000			3	1000		1875	
0020	A-1		GRIST MILL	105	200	WATER	15	1		3000	4000	1000
0020	A-1		QUARRY	083	200			0	250	400	400	0
0021	B-4		GAS WORKS	574	80000			6	3000	5500	15000	9500
0021	E-2		SAW MILL/AG IMPL	251/311	3000	STEAM	20	12	4000	4800	9725	4925
0021	E-2		COOPER/CARPENTER	259-C/421-C	20			1	20	19	32	13
0021	F-2		CARRIAGE SHOP	329	1000			12	2625	2500	5620	3120
0021	B-2	ABBOTT	SEWING MACHINE F	315-S	10000	STEAM	3	12	6000	3000	20000	17000
0021	C	ABBY	BOAT BUILDING ES	328				3	650	300	950	650
0021	F-2	ADAMS THOMAS	SHOE SHOP	174	600			3	600	600	1300	700
0021	D-1	ADAMS WILLIAM	SAW MILL	251	1200	WATER	28	3	200	1250	1500	250
0021	E-1	ALBRIGHT DANIEL	SHOE SHOP	174	300			2	600	500	1200	700
0021	F-2	ALCOCK ROBERT	SHOE SHOP	174	250			2	300	400	704	304
0021	B-2	ALLAN & BRO	CABINETMAKER	261	1200			4	1200	1800	3600	1800
0021	F-2	ALLEN MARY JANE	WEAVING LOOM	182-W				4	200	150	450	300
0021	C	ANDERSON HARRIET	DRESSMAKER	244				2	90	300	600	300
0021	C	ANDREWS S & SON	SHIP BUILDING ES	327	12000	WATER	20	42	18000	1000	30000	29000
0021	E-2	ARNNISS JEREMIAH	BAKERY	107/108-C	400			3	400	1045	1545	500
0021	B-1	ARRONS P B	MILLINERY/MANTLE	244/249-M				8	1200	15000	20000	5000
0021	B-2	BALD & DYER	CARPENTER SHOP	421-C				6	2808	7626	10771	3145
0021	B-1	BALL & DYER	CARPENTER WORK	421-C	150			9	3000	3000	8000	5000
0021	D-2	BALL GEORGE P M	GRIST MILL	105	4000	WATER	25	2	400	13600	15975	2375
0021	D-2	BALL GEORGE P M	SAW MILL	251	3000	WATER	15	7	1000	2500	4000	1500
0021	D-2	BALL GEORGE P M	LIME KILN	358-L	50			1	250	84	630	546
0021	D-2	BALL GEORGE P M	LIME KILN	358-L	50			2	400	125	928	803
0021	D-2	BALL GEORGE PM	SAW MILL	251	3000	WATER	15	6	1000	2500	4000	1500
0021	B-2	BARON WILLIAM	MARBLE CUTTING S	353	500			2	1000	2000	3000	1000
0021	B-1	BARR WM	DRESSMAKER/MILLI	244/249-M	100			8	1600	10000	15000	5000
0021	B-1	BATES ELIZABE	HAT CLEANING/REP	249-H				2			100	
0021	D-1	BEAL JOHN	LIME KILN	358-L	25			2	40	300	750	450
0021	F-1	BEAMER JOHN	SAW MILL	251	400	WATER	20	2	120	370	700	330
0021	B-1	BEATTIE THOS	BOOT/SHOEMAKING	174				3	600	500	1500	1000
0021	B-2	BECKETT WILLIAM	CLOTH FACTORY	182	3500	WATER	10	9	1500	2000	4100	2100
0021	B-1	BEETON WM B &	CHEMIST/DRUGGIST	374				4	450	600	2000	1400
0021	B-4	BEGGY WILLIAM	COOPERING EST	259-C	1000			7	2000	2500	5500	3000
0021	B-2	BEGY FRANCIS	PAINT SHOP	421-D	1500			9	2500	1700	4500	2800
0021	B-1	BELTON WM	BRICK FACTORY	351-B		HORSE	1	8	300	100	500	400
0021	B-1	BENFIELD W S	BRICK FACTORY	351-B	250	HORSE	2	20	3000	200	3500	3300
0021	E-2	BENNETT JAMES	CARRIAGES/BLACKS	329	100			10	1100	2000	4900	2900
0020	A-2	BENSON MICHAEL	GRIST MILL	105	2000	WATER		1		30000	30500	500
0021	B-4	BISHOPRICK JAMES	SOAP/CANDLE FACT	376/378-P	5000			5	1400	16800	19530	2730
0021	C	BLACK JOHN	COOPER SHOP	259-C	400			1	260	450	660	210
0018	D-2	BLACK DAVID	BLACKSMITH FORGE	896	125			1	150	30	500	470
0021	D-1	BLAIR JOHN	BLACKSMITH SHOP	896	100			1	80	20	100	80
0021	B-1	BOLES WILLIAM	TAILOR/CLOTHING	242/243	800			45	14000	20000	37500	17500
0018	D-1	BOOK ISAAC	SAW MILL	251	1200	STEAM	16	3	250	3200	4000	800
0021	E-2	BOUGHNER EDWARD	WEAVER	182-W	30			1	50	500	850	350
0021	E-2	BOUGHNER PATRICK	BOOT/SHOE SHOP	174	60			2	400	600	1200	600
0021	E-2	BOUGHNER THOMAS	TAILOR SHOP	242	300			2	400	780	1300	520
0021	E-2	BOUGHNER WILLIAM	COOPER SHOP	259-C	35			1	100	55	200	145

## LINCOLN COUNTY: FIRMS BY NAME OF PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	C	BOWMAN SUSAN	DRESS MAKING EST	244	40			2	70	200	275	75
0021	F-1	BOWSLAUGH WILLIAM	SAW MILL	251	1000	STEAM	20	4	345	850	1600	750
0021	E-2	BOYER MATTHIAS	BOOT/SHOE SHOP	174	60			2	500	862	1734	872
0021	B-1	BOYLE ARTHUR	CHEMIST/DRUGGIST	374				1	100	500	700	200
0021	F-2	BRANT GEORGE	TIN SHOP	304-T	700			1	150	200	650	450
0021	F-2	BREHENEY EDWARD	SHOE SHOP	174				1	400	200	600	400
0021	B-2	BRENNAN F & L	BOOK BINDERY	287-B	700			3	1000	370	2000	1630
0021	B-1	BROCK A M	WATCHMAKER	392				2		75	600	525
0021	A-3	BRYANT MARK	BRICK YARD	351-B	800	HORSE	2	9	550	200	900	700
0021	B-4	BURNETT GEORGE	TANNERY	172	500			1	250	1300	2500	1200
0021	B-3	BURR JAMES	MILLINER	249-M/243				1	18	100	150	50
0021	B-1	BURROW/CHATFIELD/	SHEET METAL WORK	304-T	1000			18	4000	10000	20000	10000
0021	D-1	BURTCH WILLIAM	PUMP FACTORY	315-P	100			1		20	200	180
0021	F-1	BUSKIRK LAWRENC	BLACKSMITH FORGE	896	200			2	540	150	900	750
0021	B-1	CAIN ARTHUR	BAKERY	107	100			2	300	4700	6000	1300
0021	B-1	CAIRNS JAMES &	BOOT/SHOE STORE	174	100			6	2000	3000	9000	6000
0021	F-1	CALDER IRA	LIME KILN	358-L	25			1	30	40	70	30
0021	E-2	CALLADAY JACOB	JOINER SHOP	421-C	150			1	150	40	250	210
0021	B-3	CAMPBELL W & H	SHOE SHOP	174				2	400	1100	3600	2500
0021	B-1	CARLISLE HENRY	CLOTHING STORE	242	150			8	3000	5000	12000	7000
0021	B-2	CARNALL REBECCA	MILLINERY STORE	249-M/245				10	800	1000	2500	1500
0021	E-2	CARTER JAMES F	SADDLER	179-S	100			3	800	1240	2450	1210
0020	C	CATHLINE PHILLIP	CARPENTER/JOINER	259	200			2	400	300	600	300
0021	B-2	CHANDLER ABEL M	FOUNDRY/MACHINE	315	3000	STEAM	15	3	1200	600	2000	1400
0018	D-2	CHASE EBENEZER	BLACKSMITH SHOP	896	25			1			200	
0021	B-3	CLARK GEORGE	SMUT MILLS	311				2	400	200	750	550
0021	B-1	CLARK JANE	DRESSMAKING	244				2			200	
0021	B-3	CLARK MARIA	MILLINERY/DRESSE	249-M/244				2			450	
0021	D-2	CLARK S ?	TANNERY	172				2	100	300	2000	1000
0020	C	CLEMENT JOHN M	TIN/COPPERSMITH	304-T	1000	STEAM	6	1	300	1000	2000	1000
0021	B-2	CLENCH F B	PHOTOGRAPHIC STU	893	500			1	400	480	750	270
0021	D-2	CLIME OLIVE	WEAVING LOOM	182-W	1000			3	858	1500	4000	2500
0021	B-4	CLONEY THOMAS	POTASH FACTORY	378-P	10			1		400	475	75
0021	B-3	COLLIER HENRY	AGRC IMPLEMENT F	311	500			5	1500	1600	5400	3800
0021	F-2	COLLINS JEREMIAH	SHOE SHOP	174	10000	STEAM	15	20	7200	7200	20000	12800
0021	A-3	COLLINSON & BURCH	CANADA KNIFE WOR	306-C/311				2	133	400	600	200
0021	E-2	COMFORT FRANCIS	WEAVING LOOM	182-W	15000	W/S	45	21	6500	10000	25000	15000
0021	B-1	CONGLE PETER	TAILOR/CLOTHIER	242	20			2	50	140	225	85
0021	B-2	CONNOR FRANCIS	SHOE SHOP	174	200			8	1500	3000	6000	3000
0021	B-1	COOK CECILIA	DRESSMAKING	244	200			5	2000	1500	4000	2500
0021	A-3	CORBIN D W	BRICK YARD	351-B	3000	HORSE	5	6	200	2000	3000	1000
0021	B-1	COUPER & CRAIG	TAILOR/CLOTHIER	242				30	4950	200	12300	12300
0021	E-2	COUSE IRA C	BLACKSMITH SHOP	896	40			15	3500	14000	21000	7000
0021	F-2	COUSE MOSES H	BLACKSMITH FORGE	896	400			1	150	18	500	482
0021	B-1	CRAIG WM	PHOTOGRAPHIC ROO	893	500			2	600	150	1400	1250
0021	E-1	CRUMP B ?	BLACKSMITH SHOP	896	150			2		400	1000	600
0021	E-2	CULP ANTHONY	BLACKSMITH SHOP	896	100			2	400	120	600	480
0018	D-2	CULP SOLOMON	CARRIAGE SHOP	329	200			1	400	45	700	655
0021	B-1	CUTHBERT JOHN	BOOKBINDING	287-B	500			3	700	25	200	175
0021	B-2	DACK JOHN	CONFECTIONER SHO	108-C	2000			3	800	300	1000	700
0021	C	DAISEY JOHN	SADDLER SHOP	179-S	300			2	600	2913	4139	1226
										300	900	600



## LINCOLN COUNTY: FIRMS BY NAME OF PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0020	C	DALEY THOMAS	CARPENTER SHOP	259	400			0	130	150	1000	850
0020	C	DAVIDSON JOHN	CARPENTER SHOP	421-C	1000	HORSE	2	2	500	600	1500	900
0021	E-2	DEACONS WILLIAM	BASKETMAKING	256				2	30		30	
0021	E-1	DEAN ANDREW	FLOUR MILL	105	6000	STEAM	24	3	800	9750	11560	1810
0021	F-1	DECOO CHARLES	BLACKSMITH FORGE	896	150			3	175	175	514	339
0021	A-3	DELANEY ANDREW	BLACKSMITH SHOP	896	150			2	486	250	900	650
0021	B-1	DELL E W	ENGRAVER/JEWELER	392				1		400	900	500
0021	C	DENTON JOHN	TAILOR ESTABLISH	242	200			5	600	2200	3500	1300
0018	E-2	DEVIT JOSEPH	SAW MILL	251	2500	STEAM	20	4	700	3500	7200	3700
0021	B-2	DILLINGHAM CHARLE	CABINET/TURNING	259-W				1		500	2500	2000
0021	B-2	DILLON MRS ANN	SHOE SHOP	174				1	250	125	500	375
0021	A-3	DISHER & HAIGHT	WOOLEN MILL	182	20000	WATER	40	22	3800	10850	22000	11150
0021	D-2	DISHER PETER	BLACKSMITH FORGE	311	100			2		65	572	507
0018	D-1	DOAK SAMUEL	BLACKSMITH FORGE	896	400			1	500	150	800	650
0021	B-3	DOLSON SAMUEL	PLANING MILL	254	6000	STEAM	15	40	13000	14600	29000	14400
0021	B-2	DOUGAN JAMES	CARPENTER/BUILD	421-C	3000			25	10000	10000	25000	15000
0021	B-1	DOUGLAS & MCMULLI	WATCHMAKER/JEWEL	695/392				4	2000	1000	3000	2000
0021	B-1	DRAY AARON	CABINETMAKING	261				1		200	600	400
0021	E-2	DURHAM ISAAC	CIDER MILL	109-C	100	HORSE	4	3	60	400	1025	625
0021	E-2	DURHAM MATHIAS	CIDER MILL	109-C		HORSE	4	2	50	240	600	360
0021	D-2	ECKHARDT GEORGE A	HARNESS SHOP	179-S	250			1		640	900	260
0021	E-1	EDDY EDWIN	SAW MILL	251	700	STEAM	10	3	150	300	600	300
0021	F-2	EDMONDS EBENEZER	GRIST MILL	105	700	STEAM	60	2	600	13000	15000	2000
0021	B-1	ELMSLIE EDMOND	BAKERY	107	1000			3	600	5000	8000	3000
0021	F-1	FARREL JOHN	SHOE SHOP	174	100			1	400	300	700	400
0021	D-2	FEAN ROBERT A	SHOE SHOP	174	40			1		329	770	441
0021	D-2	FEY ABRAHAM	LIME KILN	358-L	50			1		16	56	40
0021	F-2	FIELD G & ARMOUR	PRINTING PRESS	286				5	1500	400		
0021	F-2	FIELD HIRAM	PUMP MANUFACTURE	315-P	50			1	300	50	450	400
0021	F-2	FIELD JOHN L	PHOTOGRAPHER	893	50			1	300	100	500	400
0021	E-2	FIRSTINE GEORGE	TANNERY	172	150			1	60	50	150	100
0021	B-2	FISH LYMAN W	BOOT/SHOE SHOP	174	150			5	1200	1500	4500	3000
0020	A-1	FISHER THOMAS	SHOE SHOP	174	300			1	300	500	1500	1000
0021	B-1	FITZGERALD JAMES	PUBLISHING/PRINT	289	1000			3	600	830	2000	1170
0021	D-2	FOSTER ELIZA	WEAVING LOOM	182-W	5			1		150	187	37
0021	B-1	FOWLER JAMES B	WATCHMAKER/REPAI	695	150			2	800	200	1200	1000
0021	D-2	FRETZ DAVID	CIDER MILL	109-C	100	HORSE	4	1		180	320	140
0021	E-2	FRUGALI THOMAS	WATCH REPAIRS	695	25			1	150	25	200	175
0021	B-4	GADSBY ELI	MARBLE FACTORY	353	2000			5	2800	5000	11000	6000
0021	B-1	GIBBS MRS WM	DRESS/MANTLE MAK	244				1	400	400	1000	600
0021	B-4	GIBSON GEORGE	BLACKSMITH SHOP	896	400			2	900	250	2000	1750
0021	B-4	GILLESPIE & SIMPS	SAW MILL	251	5000	WATER	30	16	4000	19000	25000	6000
0021	B-1	GILLESPIE J B	MILLINERY	249-M/244	100			3	750	5000	7000	2000
0021	E-2	GILMOUR WARNER	BLACKSMITH SHOP	896	25			1	360	70	700	630
0021	A-3	GOODINOW JOSEPHUS	BRICK YARD	351-B	600	HORSE	2	8	900		2500	
0021	E-2	GOODMAN REUBEN	SHOEMAKING	174	25			1	150	233	400	167
0021	B-1	GORDON CARRIE	DRESSMAKING	244				1		600	700	100
0021	A-3	GORDON & MACKAY	LYBSTER COTTON M	181	150000	WATER	250	200	36000	66000	150000	84000
0021	B-1	GRANT WM & CO	PUBLISHING/PRINT	289	7000	STEAM	4	9	3600	3100	12000	8900
0021	F-2	GRASSIE JOHN	BLACKSMITH FORGE	896				2	600	300	1200	900
0018	E-1	GREENWOOD JAMES	SAW MILL	251	500	STEAM	12	2	100	150	300	150

## LINCOLN COUNTY: FIRMS BY NAME OF PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	B-1	GREENWOOD W W	CHEMIST/DRUGGIST	374	1000		.	4	600	500	2000	1500
0021	B-1	GREGORY ADELINE	MILLINERY	249-M	.		.	2	100	1000	1500	500
0021	C	GRIFFIN EDWARD	BLACKSMITH SHOP	309	75		.	2	450	150	700	550
0021	B-2	GROBB & HARLEY	CABINETMAKER	261	3000	WATER	.	7	2500	3200	8000	4800
0021	F-1	GROUT JOHN	AGRC IMPLEMENT M	311	8000	STEAM	8	14	3600	3365	10000	6635
0021	F-1	GURNEY & NELLES	FLOUR MILL	105	5000	STEAM	25	2	700	14000	16000	2000
0021	B-2	GWINNER JOHN	TAILOR SHOP	242	.		.	6	1000	2000	4000	2000
0021	A-2	HADGLEY S & L	DOG POWER CHURNS	315	100		.	2	.	35	200	165
0021	E-1	HAGERMAN DANIEL	BLACKSMITH SHOP	309	75		.	1	400	80	500	420
0021	A-1	HAMMILL WILLIAM J	CARRIAGE FACTORY	329	1000		.	3	1000	160	2000	1840
0021	E-2	HANN ISAAC	BROOM MAKING	399-B	200		.	4	160	512	1200	688
0018	D-2	HARMON LAWRENCE	COOPERAGE	259-C	50		.	1	.	30	300	270
0021	B-1	HARRIS & BERSTON	CIGAR MANUFACTORY	153	150	STEAM	15	12	3600	1200	10000	8800
0021	E-2	HARRIS A & SON	AGRC IMPLEMENT M	311	5000		.	21	8000	12200	50000	37800
0021	D-2	HART RAUSFORD	LIME KILN	358-L	50		.	2	250	40	360	320
0021	D-1	HAVENS GEORGE M	CHEESE FACTORY	104	500		.	1	150	350	650	300
0021	B-1	HEALEY TIMOTHY	BOOT/SOEMAKING	174	350		.	22	7000	8000	18000	10000
0021	E-2	HEARLE WILLIAM	TIN SHOP	304-T	1800		.	2	780	1200	3000	1800
0018	E-1	HEASLIP JAMES D	TANNERY	172	500		.	1	100	120	250	130
0021	B-4	HELLEMS & JACKSON	PLANING MILL	251	7000	STEAM	20	17	4000	10000	18000	8000
0021	C	HENRY ROBERT	BLACKSMITH SHOP	309	500		.	2	600	300	1500	1200
0020	C	HEWITT WILLIAM	SHOEMAKER SHOP	174	200		.	7	1300	2700	4000	1300
0021	D-2	HIGH ABRAM H	COOPER SHOP	259-C	225		.	1	.	19	34	15
0021	B-2	HIGMAN WILLIAM	CABINET SHOP	261	300		.	3	1000	500	1725	1225
0021	D-2	HILL HENRY	SHOE SHOP	174	15		.	2	.	200	500	300
0021	E-1	HIPPLE JOHN	WAGON SHOP	329	500	HORSE	2	5	2000	520	3000	2480
0021	E-2	HODGE ARCHIBALD	TAILOR	242	100		.	2	375	1500	1900	400
0018	D-2	HODGE OMAR	CARPENTER SHOP	259	150		.	1	30	40	200	160
0021	B-1	HOLMES & GREENWO	CARRIAGE/WAGON E	329	1000		.	15	3323	2000	10000	8000
0020	C	HOSKINS NELSON	CORN BROOM MF	399-B	50		.	2	250	300	600	300
0021	B-2	HOSTETTER HERMAN	GRIST MILL	105	7000		.	2	624	21825	25447	3622
0021	C	HOUSE HENRY	TIN SHOP	304-T	300		.	1	.	50	800	750
0021	E-1	HOUSE DAVID	BELL FACTORY	294	150		.	3	200	185	1000	815
0021	E-1	HOUSE GERARD	SHOE SHOP	174	50		.	1	300	200	500	300
0021	D-2	HOUSER JACOB	CABINET SHOP	261	250		.	1	150	100	600	500
0021	B-2	HOWSE JOHN H	TIN/COPPERSMITH	304-T	5000		.	6	2000	3000	6000	3000
0021	E-1	HUFFMAN JOHN	SHOE SHOP	174	50		.	1	100	150	250	100
0020	A-1	HUME I G	GRIST MILL	105	700	WATER	25	1	.	7000	10000	3000
0021	E-1	HUNTSMAN ADAM	SAW MILL	251	1200	WATER	30	6	540	1060	1680	620
0021	E-1	HUNTSMAN JOHN	SAW MILL	251	1000	STEAM	12	4	600	900	1800	900
0021	B-2	JACKSON JAS W	WATCHMAKER SHOP	695	200		.	1	600	600	600	.
0021	B-2	JACKSON JULIA	DRESSMAKER SHOP	244	.		.	3	200	1000	1500	500
0021	E-2	JAMES HENRY S	MILLINERY/DRESSM	249-M/244	100		.	7	400	5000	6000	1000
0021	B-2	JANE JOHN H	CARPENTER SHOP	259/256	200		.	2	550	410	1100	690
0021	C	JOHNSON JOSEPH	BOOT/SOEMAKER	174	100		.	4	960	1200	3000	1800
0021	D-2	JOHNSON JACOB	CIDER MILL	109-C	50	HORSE	4	1	.	150	200	50
0018	D-2	JOHNSON JEREMIAH	SAW MILL	251	2000	STEAM	15	6	96	1500	6000	4500
0021	E-1	JOHNSON JOHN	WEAVER	182-W	10		.	1	.	40	75	35
0021	B-3	KEEFER FERDINA	PORK CURING EST	101-P	1000		.	1	160	2000	2790	790
0021	E-2	KENNY ROBERT	GRIST MILL	105	4500	STEAM	16	3	1150	17556	20179	2623
0018	E-1	KERR ROBERT	GRIST MILL	105	4000	STEAM	24	2	700	15000	20000	5000



LINCOLN COUNTY: FIRMS BY NAME OF PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0018	E-1	KERR ROBERT	SAW MILL	251	600	WATER	10	2	180	600	1300	700
0021	E-2	KERR W & SON	CARRIAGE FACTORY	329	6000			15	5000	4000	12000	8000
0021	E-2	KILBORN CYRUS	CABINET SHOP	261	400			1	400	100	500	400
0021	E-2	KILBORN JOHN C	WINE MANUFACTORY	109-W	50			1	300	300	800	500
0020	A-1	KILLMER NELSON	BLACKSMITH SHOP	896	200			1				
0021	A-3	KING JOSEPH	TALLOW CHANDLER	376	300			1	300	2100	3500	1400
0021	E-2	KING LIDIA	WEAVER	182-W	15			1	65	112	240	128
0021	E-2	KING WILLIAM	COOPER SHOP	259-C				1	20	14	30	16
0018	E-1	KINNY WILLIAM	WAGON SHOP	329	200	STEAM	8	1	150	20	100	80
0021	B-2	KIRBY JAMES	CABINET FACTORY	261				5	1950	2300	4250	1950
0020	A-1	KIRBY J I	PRINTING OFFICE	289	1000			4	700	500	1500	1000
0020	A-1	KIRKLAND GEORGE	WAGONMAKER SHOP	329	200			1		800	1500	700
0021	F-1	KITCHEN WILLIAM	WINE PRESS	109-W	300			1	25	600	2000	1400
0021	D-2	KRATZ ABRAHAM	BROOM FACTORY	399-B	150			1		170	330	160
0021	D-2	KRATZ CHRISTIAN	BROOM FACTORY	399-B	320			3	324	315	675	360
0021	D-2	KRATZ JACOB	BROOM FACTORY	399-B	100			2		80	105	25
0021	B-3	LANE WILLIAM	DRUG SHOP	374	700			1		500	900	400
0021	B-2	LAUDER MISS JESSIE	DRESSMAKER SHOP	244	70			7	240	3978	5226	1248
0021	C	LAWRIE JOHN	FLOUR/GRIST MILL	105	6000	WATER	20	5	1380	33000	40000	7000
0021	B-1	LEAVENWORTH E S	PRINTING	286	1400			2	300	600	2000	1400
0021	A-2	LEAVENWORTH T & T	ROCK OIL REFINER	365	500	HORSE	1	2	300	450	1500	1050
0021	B-1	LEPPER JOHN &	TAILOR/CLOTHING	242	200			22	5000	10000	20000	10000
0021	E-2	LIBROCK PHILIP	SHOEMAKER SHOP	174	25			1	200	300	400	100
0021	B-1	LINDSAY N A	BOOT/SHOE STORE	174	500			9	2500	2200	6000	3800
0021	E-2	LITTLE AUGUSTUS	WEAVER	182-W	25			1	400	670	1356	686
0021	E-2	LITTLE CYRUS	POTTERY	351-P	450			4	250	65	1675	1610
0018	E-2	LONSTON JOHN	BOOT/SHOE SHOP	174	300			3	400		1000	
0021	F-1	LUNDSELY EDWARD	TAILOR SHOP	242				5	1675	1875	3500	1625
0018	E-1	LUNDY JOHN	BLACKSMITH SHOP	896	300			1	400	120	800	680
0018	D-2	LYMBURNER & LAFFE	SAW MILL	251	20	WATER	300	2	50	1500	2000	500
0018	D-2	LYMBURNER ALLEN	SAW MILL	251	1200	WATER	10	2	140	560	1200	640
0020	C	LYNCH PATRICK	SADDLER/HARNES	179-S	50			2	75	300	600	300
0021	E-2	LYNDERBERY JOHN H	BLACKSMITH FORGE	896	25			1	40	11	75	64
0020	C	MACKIN EDWARD	BLACKSMITH SHOP	896	150			3	160	175	800	625
0021	B-1	MADDERN MRS D D	HAIR ESTABLISHME	399-W				2		200	300	100
0021	B-1	MAHONEY THOS	TAILOR ESTABLISH	242	100			4	700	1200	3500	2300
0021	B-1	MAITLAND G F	PHOTOGRAPHIC ROO	893	1800			2	150	400	2000	1600
0021	B-4	MANNE ABRAHAM	BLACKSMITH SHOP	896	400			2	800	400	2000	1600
0021	E-2	MARTELL EZEKIEL	AGRC IMPLEMENT F	311	100			2	450	325	1500	1175
0021	E-1	MARTIN MICHAEL	BROOM FACTORY	399-B	150			1	100	400	600	200
0021	D-2	MATLOCK JOSIAH	TANNERY	172	50			2		425	720	295
0021	B-3	MAXWELL ALEXAND	BAKERY	107	1000			5	700	6500	8000	1500
0021	B-2	MCARDLE EDWARD	BAKER SHOP	107	2000			5	1976	12000	15000	3000
0021	C	MCCALL ELLEN	DRESS MAKING EST	244	50			1			250	
0021	B-1	MCCARTHY KATE	DRESSMAKING	244				5		400	1000	600
0021	B-2	MCCARTHY & BROWN	PORK CURING EST	101-P	500			4	1000	7000	10000	3000
0021	B-1	MCCARTY E	HORSESHOEING	896	350			2	365	150	1200	1050
0021	B-3	MCCORMACK MATHIA	CARPENTER/JOINER	254	1100			9	3000	1200	5400	4200
0021	B-1	MCCOURT JAMES	SAIL MAKING	187				4	2000	6000	12000	6000
0018	E-2	MCDONALD JOHN	SAW MILL	251	2000	STEAM	14	3	500	2000	4000	2000
0021	B-3	MCELROY NEIL	WAGON FACTORY	329	2000			3	1000	555	2650	2095



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0021	B-3	MCGLASHAN ALEXAND	TIN SHOP	304-T	.	.	.	1	.	245	500	255
0021	D-1	MCINTIE PETER	BLACKSMITH SHOP	896	100	WATER	.	1	40	10	50	40
0021	B-2	MCINTYRE & SON	CABINETRY/UNDERT	261/258	1000	WATER	.	17	5200	1500	12000	10500
0021	F-1	MCKAY ALEXAND	CARPENTER SHOP	254	200	.	.	3	300	72	400	328
0021	B-2	MCKELVEY JAMES	TINSMITH	304-T	150	.	.	5	800	1000	2000	1000
0021	D-1	MCKENZIE ALEXANDE	BLACKSMITH SHOP	896	200	.	.	1	120	30	150	120
0021	B-4	MCKINLEY R & CO	CARRIAGE WOODWOR	329-P	26000	STEAM	40	60	21000	30000	85000	55000
0021	A-3	MCKONCKIN GEORGE	BLACKSMITH SHOP	896	600	.	.	2	450	1400	2500	1100
0021	B-3	MCLAUGHLIN JAMES	BOOT/SHOE SHOP	174	300	.	.	2	300	800	1300	500
0021	B-2	MCLEAN DAVID C	TIN/COPPER STORE	304-T	.	.	.	1	300	300	800	500
0021	B-2	MCLEAN J & J	PORK CURING	101-P	200	.	.	2	130	2000	2555	555
0021	B-1	MCNAMARA MRS R	MILLINERY	249-M	.	.	.	4	200	2000	2500	500
0021	B-3	MCNEIL JAMES	CARPENTER SHOP	421-C	100	.	.	12	3900	5366	10000	4634
0021	C	MCPHIE ARCHIE	BOAT BUILDING ES	328	.	.	.	1	.	30	240	210
0021	B-2	MEADOWS WILLIAM	TEMPERANCE DRINK	109-S	400	.	.	4	780	3170	6180	3010
0021	A-3	MELOCKER MICHAEL	CHAIR/BEDSTEAD F	261	400	WATER	6	4	932	450	1700	1250
0021	B-2	MESLER & PLUMSTE	CARPENTER/JOINER	256/259	1100	STEAM	8	4	1000	1360	3552	2192
0021	F-1	MIHELL EDWIN	TIN SHOP	304-T	500	.	.	1	620	600	1200	600
0021	D-2	MILES ALSON	SHOE SHOP	174	207	.	.	4	480	150	1000	850
0021	D-2	MILLER CASPAR	TAILOR	242	75	.	.	2	150	475	900	425
0021	B-2	MILLS A & SON	PUMP FACTORY	315-P	2000	WATER	4	3	1200	800	2700	1900
0021	B-1	MILLS JAMES J	CHEMIST/DRUGGIST	374	2500	HORSE	3	10	500	500	1000	500
0021	A-3	MILLWARD CHARLES	BRICK YARD	351-B	25	.	.	1	1190	.	3000	.
0021	D-2	MOFFAT JOHN	COOPER SHOP	259-C	25	.	.	1	65	91	144	53
0020	C	MONRO THOMAS	BLACKSMITH SHOP	896	100	.	.	1	150	160	800	640
0021	F-1	MOORE CHARLES	CABINET SHOP	261	200	.	.	1	600	200	800	600
0021	D-2	MORGAN WM	LIME KILN	358-L	50	.	.	2	200	60	675	615
0021	E-2	MORRIS GEORGE	WAGON SHOP	329	20	.	.	2	100	150	410	260
0021	D-2	MOTTIS MICHAEL	TAILOR SHOP	242	100	.	.	3	150	1500	2200	700
0021	B-1	MOYER A S	PRINTING HOUSE	289	5000	.	.	11	2500	1500	4500	3000
0021	E-1	MOYER E N	BROOM FACTORY	399-B	100	HORSE	1	4	130	200	500	300
0021	E-1	MOYER JACOB A	BRICK KILN	351-B	300	.	.	2	400	.	800	.
0021	E-1	MOYER JACOB I	BROOM FACTORY	399-B	100	WATER	20	2	400	500	1100	600
0021	E-2	MOYER W W & CO	SAW MILL	251	1000	.	.	2	100	400	500	100
0021	C	MUIR ALEX & BROS	BROOM MAKING	399-B	25	STEAM	8	2	100	250	666	416
0021	B-4	NEELON SYLVEST	SHIP BUILDING ES	327	1600	.	.	8	1580	985	3480	2495
0021	B-4	NEELON SYLVEST	FLOUR MILL	105	9000	WATER	150	60	22960	12000	39000	27000
0021	F-2	NELSON THOMAS	COOPER SHOP	259-C	5000	.	.	25	8000	385000	447120	62120
0021	B-1	NESBET CHRISTI	LIME KILN	358-L	100	.	.	2	6000	18200	26250	8050
0021	D-2	NEUMAKER JOHN	DRESSMAKER	244	50	.	.	4	240	35	525	490
0021	D-2	NEW FREDERICK	LIME KILN	358-L	50	.	.	1	500	5000	6500	1500
0021	F-2	NEWTON FRANCIS E	WEAVING LOOM	182-W	30	.	.	2	.	37	180	143
0021	F-1	NIXON DENNIS	SHOE SHOP	174	50	.	.	1	300	200	700	400
0021	B-1	NORRIS JAMES	FRUIT CANNING CO	103	2500	.	.	24	1000	1500	3500	2000
0021	B-1	NORRIS JAMES	FLOUR MILLS	105	45000	WATER	120	25	10000	575000	640000	65000
0021	B-1	NORRIS & CO	COOPERAGE	259-C	6000	.	.	25	9000	16000	28000	12000
0021	B-1	O'DONNELL THOS	FLOUR MILLS	105	10000	WATER	50	9	2000	140600	150000	9400
0021	F-2	OILL JAMES	PAINTER	421-D	75	.	.	3	500	500	1200	700
0021	B-2	OILLE G & J	SAW MILL	251	1500	WATER	12	50	150	750	1500	750
0021	B-2	FOUNDRI/MACHINE	315	18000	STEAM	.	.	50	16000	6000	30000	24000

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0021	B-2	ORR JAMES	PAINT SHOP	421-D	.	.	.	14	1600	1000	2600	1600
0021	B-1	ORR THOMAS	SADDLERY/TRUNKS	179-S/179-T	200	.	.	6	1200	2500	6000	3500
0021	E-1	ORTH DANIEL	POTTERY	351-P	300	.	.	1	245	200	800	600
0021	E-2	OSBORN J B & SON	MILLINERY/DRESSM	244/249-M	.	.	.	6	200	1200	1800	600
0021	D-1	OSTERHOUT MARY	WEAVER	182-W	20	.	.	1	.	120	300	180
0021	D-2	OVERHOLT MOSES	COOPER SHOP	259-C	150	.	.	2	350	330	720	390
0021	D-2	OVERHOLT PHILIP	COOPER SHOP	259-C	30	.	.	1	90	55	140	85
0021	A-3	PAGE SARAH	WEAVER	182-W	20	.	.	1	65	130	350	220
0021	B-2	PALMER JOSEPH	LOCKSMITH SHOP	309-S	80	.	.	1	170	25	200	175
0021	A-3	PARNALL WILLIAM	SASH/DOOR/PLANIN	254/251	8000	WATER	30	4	1200	200	2000	1800
0021	E-1	PARR WILLIAM	WAGON SHOP	658	150	.	.	1	50	30	120	90
0021	A-1	PARRSONAGE THOMAS	BLACKSMITH FORGE	896	.	.	.	2	540	200	960	760
0020	C	PATTERSON EDWARD	BAKERY	107	200	.	.	2	300	3276	4476	1200
0021	A-2	PATTERSON ELIAS	COOPER ESTABLISH	259-C	250	.	.	6	900	1432	2800	1368
0021	A-3	PATTERSON H & CO	SPOKE/BENDING FC	329-P	6000	W/S	20	20	7000	15000	50000	35000
0021	D-1	PATTERSON JOHN	COOPER SHOP	259-C	150	.	.	2	800	1010	2100	1090
0021	F-2	PATTERSON WILLIAM	SAW MILL	251	1000	STEAM	12	3	450	1800	2500	700
0021	B-1	PAWLING WM	TRUNK/HARNESS MF	179-T/179-S	100	.	.	5	500	1800	2500	700
0020	A-1	PENDERGAST JOHN &	BLACKSMITH/WAGON	329/896	200	.	.	1	.	570	1000	430
0020	A-1	PENDERGAST THOMAS	BLACKSMITH SHOP	896	100	.	.	1	.	600	1100	500
0021	F-1	PETTIT ANDREW	CHEESE FACTORY	104	1500	.	.	2	100	1112	1356	244
0021	D-2	PETTY JOHN H	CARRIAGE FACTORY	329	500	.	.	7	1632	600	3800	3200
0021	A-3	PHELPS N & O J	SAW MILL	251	6000	WATER	50	10	2000	4800	7800	3000
0021	A-3	PHELPS & PHELPS	BLACKSMITH SHOP	896	150	.	.	3	600	600	1440	840
0021	C	PHILLAMORE ELLEN	DRESS MAKING EST	244	40	.	.	3	70	150	250	100
0021	F-2	PICTEN ALFRED	BLACKSMITH FORGE	896	100	.	.	1	200	100	600	500
0020	B	PLATT WILLARD	WAGONMAKER	329	600	.	.	4	400	105	1800	1695
0021	B-1	PRESTON VIOLET	DRESSMAKER	244	.	.	.	2	8	400	600	200
0021	D-2	PURDY MARGARET	TAILOR ESTABLISH	243	.	.	.	1	.	500	750	250
0021	B-1	PURVES ADAM	MILLINERY/MANTLE	244/249-M	100	.	.	5	600	5000	7000	2000
0021	F-1	RANDALL THOMAS	SHOE SHOP	174	30	.	.	1	250	125	360	235
0021	B-2	RATCLIFFE & PARNE	TINWARE MANUFACT	304-T	250	.	.	4	2500	1000	5000	4000
0021	B-2	REA & BOYLE	PAINT SHOP	421-D	.	.	.	6	1700	1100	2800	1700
0020	A-1	READ SAMUEL	HARNESS SHOP	179-S	800	.	.	2	600	700	2000	1300
0021	B-1	REID JOHN	CLOTHING EST	242	50	.	.	6	600	2000	3000	1000
0021	A-3	REYNOLDS B G	SAW MILL	251	5000	WATER	45	3	900	1500	3500	2000
0021	A-3	REYNOLDS B G	BLACKSMITH/CARRI	329	625	.	.	5	1250	750	2500	1750
0021	A-1	RICHARDSON WILLIA	WAGON SHOP	329	150	.	.	1	600	125	820	695
0021	B-1	RIDDELL WM E	BUILDER	421-S	.	.	.	9	2500	4000	8000	4000
0021	B-1	RILEY CHARLOT	DRESSMAKING	244	.	.	.	1	.	300	300	.
0021	A-3	RIORDAN JOHN	PAPER MILLS	271	156000	WATER	200	100	30000	70000	160000	90000
0021	F-2	ROBERTS W A & M L	ASHERY	378-P	1500	.	.	7	1680	1250	5000	3750
0021	B-1	ROBERTSON ELIZABE	DRESS/MANTLE EST	244	.	.	.	3	.	4000	500	.
0021	C	ROBESON DAVID	SAIL MAKING EST	187	.	.	.	2	1000	6000	6000	2000
0021	C	ROSE SUSAN	TAILOR ESTABLISH	243	60	.	.	1	50	50	50	.
0018	E-1	ROSE JOSEPH H	BOOT/SHOE SHOP	174	200	.	.	1	500	200	1000	800
0021	B-1	ROSS GEORGE	BLACKSMITH	327/896	1000	.	.	3	600	500	3000	2500
0021	E-2	ROSS JOHN N	COOPER SHOP	259-C	6	.	.	3	150	75	450	375
0018	E-1	ROSS WILLIAM N	BOOT/SHOE SHOP	174	200	.	.	2	600	200	1000	800
0021	F-2	ROWL ANDREW	CABINET SHOP	261	.	.	.	1	150	60	600	540
0020	C	ROWLAND THOMAS	MILLINERY EST	242	200	.	.	9	1000	4000	5000	1000



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0020	C	ROWLAND	MILLINERY SHOP	244/249-M	25			1	300	600	950	350
0021	C	RUDMAN	BLOCK FACTORY	327-M	150			0		400	900	500
0021	F-1	RUSS CYRUS	SAW MILL	251/251-S	3500	STEAM	16	10	800	1029	2540	1511
0021	F-2	RUSS WILLIAM	FOUNDRY	311	2000	STEAM	16	7	2000	1500	4500	3000
0021	F-2	SALEY MARTIN	COOPER SHOP	259-C	200			4	400	450	1000	550
0021	B-2	SCHMIDT	CABINET SHOP	261	1560			4	1100	1380	1925	545
0021	D-2	SCHOBER	SHOE SHOP	174	50			2	50	200	675	475
0021	B-2	SCHRAM	MILLINER/DRESSMA	244				1		70	100	30
0021	E-2	SCHWAB WILLIAM	POTTERY	351-P	200			2	320	72	700	628
0020	A-2	SERVOS PETER C	GRIST MILL	105	1000	WATER		1		1000	1300	300
0021	B-1	SEYMOUR	PUBLISHING/PRINT	289	2000			5	1500	1000	3000	2000
0021	B-2	SHEA	BAKER SHOP	107	500			2	1000	3378	5000	1622
0021	E-2	SHEPHERD	BLACKSMITH FORGE	896	100			1	500	70	1000	930
0020	B	SHERWOOD	BLACKSMITH SHOP	896	100			1	26	150	950	800
0021	B-1	SHICKLUNA LEWIS	SHIP BUILDING YA	327	20000	WATER	50	82	25000	15000	48000	33000
0021	E-2	SIMMERMAN	SAW MILL	251	1000	STEAM	8	3	70	500	600	100
0021	A-3	SIMPSON	DOMINION FLOUR M	105		WATER	30	2	600	10830	14257	3427
0021	E-1	SIMPSON CYRUS A	SHOE SHOP	174	110			1	240	75	400	325
0021	E-2	SKELLEY SARAH	WEAVING LOOM	182-W	20			2	72	480	840	360
0021	B-2	SKINNER	DRESSMAKER SHOP	244				4	650	2080	2860	780
0021	B-2	SMITH	CARRIAGE SHOP	329	8000			21	6240	6550	15000	8450
0021	B-2	SMITH R H	SAW FACTORY	306-S	25000	STEAM	18	31	18000	35000	55000	20000
0018	D-1	SMITH & MELICK	GRIST MILL	105	3000	W/S	25	1	250	1500	1750	250
0018	D-1	SMITH & MELICK	SAW MILL	251	4000	W/S	25	3	750	3000	3000	0
0021	A-3	SMITH HENRY	CABINET SHOP	261	120			1	425	130	700	570
0021	A-3	SMITH JOHN B	COOPER/HEADING F	251	300	WATER	40	3	700	2500	5000	2500
0021	A-3	SMITH WM S	MERRITTON FLOUR	105	300	WATER	50	3	500	20000	28000	8000
0018	D-2	SMYE RICHARD ?	WAGON SHOP	329	600			1	60	120	480	360
0021	B-1	SPARROW	MASON	421-S/421-L	50			2	400	800	1800	1000
0018	D-1	SPEARS ADAM & ROB	CHEESE FACTORY	104	600			3	300	5000	5552	552
0021	D-2	SPRINGER AARON	CARPENTER SHOP	311/261	200			1		35	70	35
0018	D-1	SPRINGSTEAD JACOB	SHINGLE MILL	251-S	600	STEAM	10	2	60	40	150	110
0021	B-1	ST JOHN ELIZA	MANTLE MAKING	244				4		1500	2000	500
0020	A-1	STAULER JOHN	WAGONMAKER SHOP	329	100			1		200	500	300
0021	A-3	STEPHENSON ROBERT	PUMPMAKER	315-P	350	HORSE	4	2	500	200	900	700
0018	E-2	STEWART GEORGE	BLACKSMITH SHOP	896	380			4	80	800	2000	1200
0021	E-1	STEWART WILLIAM	SHOE SHOP	174	12			1	25	40	750	710
0021	B-2	STOCKWELL EDWARD	DYE SHOP	189-D	80			2	1000	80	1080	1000
0021	B-1	STRUTHERS ROBERT	TAILOR/MANTLES	242/244	500			6	1500	3500	5000	1500
0021	B-1	SUTHERLAND MAGGIE	MILLINERY/MANTLE	249-M/244				6	600	4000	6000	2000
0018	E-2	SWEAZY WILLIAM	CARRIAGE FACTORY	329	500			2	100		760	
0020	B	SWINTEN DAVID	CARPENTER SHOP	259	400	STEAM	14	5	2700	1350	4600	3250
0021	B-3	SWITZER EDWIN	CARPENTER SHOP	421-C	100	HORSE	1	9	3000	3840	7500	3660
0021	B-1	SWORD ROBERT	CARPENTER WORK	254	150	WATER	2	4	900	2000	3500	1500
0021	B-1	TAIT JAMES D	FUR/MANTLE MF	246	500			31	5500	9260	20000	10740
0021	E-2	TALMAN OLIVER	LIME KILN	358-L	50			2	130	30	375	345
0021	E-2	TALMAN WILLIAM	LIME KILN	358-L	150			2	150	50	350	300
0021	F-2	TANNER JOHN	HARNES SHOP	179-S/179-T	300			3	660	1560	3000	1440
0018	E-1	TANNER WILLIAM	SAW MILL	251	1500	STEAM	12	7	250	1000	1800	800
0021	D-2	TANSEY MICHAEL	BLACKSMITH FORGE	896	20			2		20	300	280
0021	B-1	TAYLOR & BATE	BREWERY	109-B	10000	STEAM	8	12	4380	12500	22000	9500



## LINCOLN COUNTY: FIRMS BY NAME OF PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	B-3	THOMPSON & NESS	CARPENTER SHOP	254	.	.	.	6	1800	400	3000	2600
0020	A-2	THOMPSON WILLIAM	CARPENTER SHOP	259	35	.	.	1	.	60	300	240
0020	B	THORNTON JOHN	BRICKLAYER	421-S	.	.	.	2	1260	250	800	550
0021	E-2	TINTINE WILLIAM	CARPENTER SHOP	259	50	.	.	3	400	700	1200	500
0018	D-2	TISDALE JAMES	BLACKSMITH FORGE	896	150	.	.	1	150	100	300	200
0018	D-2	TISDALE JOHN	CARPENTER SHOP	259	.	.	.	2	250	180	1200	1020
0021	F-1	TUFFORD TILLMAN	BLACKSMITH FORGE	896	100	.	.	1	500	50	700	650
0021	B-1	TUTTLE DATE & ROD	AGRC HAND TOOLS	306	75000	WATER	350	120	55000	36000	137000	101000
0021	F-1	VANDYKE J & G	CARRIAGE FACTORY	329	2000	STEAM	.	7	1600	1500	3722	2222
0021	A-3	VON POHENHOFF A R	OIL REFINERY	365	25000	STEAM	20	15	8000	40000	135000	95000
0021	A-3	WAIT WILLIAM	COTTON MILLS	181	30000	WATER	120	75	11000	55000	75000	20000
0021	B-2	WALES GEORGE	BLACKSMITH FORGE	896	500	.	.	6	1900	1000	3700	2700
0021	B-2	WALKER MRS HEN	MILLINER SHOP	244	50	.	.	2	480	750	1400	650
0020	A-2	WALKER FRANCIS	WAGON/CARRIAGE S	329	250	.	.	1	.	150	1000	850
0020	A-2	WALKER FRANCIS	BLACKSMITH FORGE	896	200	.	.	1	350	250	1000	750
0021	E-2	WALKER WELLINGTON	CARRIAGE FACTORY	329	300	.	.	5	1000	1500	3630	2130
0021	E-2	WALKER WILLIAM	BLACKSMITH SHOP	896	300	.	.	2	700	400	1000	600
0018	D-2	WARREN THOMAS	BLACKSMITH FORGE	896	20	.	.	1	150	20	200	180
0021	B-1	WELCH ROBERT	TAILOR	242	75	.	.	1	.	1000	1500	500
0021	B-4	WELLAND RAILWAY C	MACHINE SHOP	326	.	STEAM	12	14	5500	1500	7200	5700
0021	F-1	WHITTAKER SAMUEL	BOOT/SHOE SHOP	174	300	.	.	4	600	700	1800	1100
0021	E-2	WILCOX BENJAMIN	WEAVING LOOM	182-W	15	.	.	1	30	190	280	90
0018	D-2	WILCOX DANIEL	BLACKSMITH FORGE	896	50	.	.	1	.	25	300	275
0020	A-1	WILCOX EDWARD	GRIST MILL	105	400	WATER	20	1	.	5000	7500	2500
0018	E-1	WILLIAMS NATHAN	CABINET SHOP	261/258	200	.	.	1	400	100	700	600
0021	B-3	WILSON GEORGE	CARPENTER/JOINER	254	5000	STEAM	.	10	4600	1800	7600	5800
0021	F-1	WILSON WILLIAM	SAW MILL	251	3000	STEAM	15	3	850	800	2000	1200
0021	F-1	WILSON WILLIAM	GRIST MILL	105	3000	STEAM	15	3	850	4367	5430	1063
0021	B-2	WINGROVE JAMES	PORK CURING EST	101-P	200	.	.	3	800	2000	3600	1600
0021	A-3	WINSLOW JOHN	BAKERY	107	200	.	.	2	450	1530	2520	990
0021	E-2	WISMER ABRAM	WEAVER	182-W	30	.	.	1	150	494	910	416
0021	E-1	WISMER JACOB	BROOM FACTORY	399-B	150	.	.	3	450	1400	2520	1120
0021	D-2	WISMER SOLOMON	COOPER SHOP	259-C	70	.	.	3	300	760	1420	660
0021	E-2	WISMER WILLIAM	BLACKSMITH FORGE	896	70	.	.	1	60	20	100	80
0021	B-4	WOOD JAMES	TANNERY	172	2000	STEAM	8	5	2000	3000	9000	6000
0021	A-1	WOOD JOHN	BLACKSMITH FORGE	896	150	.	.	2	850	400	1500	1100
0021	C	WOODALL JONATHA	SHOE MAKING EST	174	600	.	.	4	1000	1600	3500	1900
0021	B-1	WOODS GEORGE	HARNESSSES/SADDLE	179-S/179-T	400	.	.	8	2500	4500	11000	6500
0021	B-1	YALE & CO	FOUNDRY	294/315-E	18000	STEAM	10	25	8000	10000	25000	15000
0021	B-1	YALE & CO	TINSMITH	304-T	1000	.	.	8	3000	4000	8000	4000
0021	A-2	YORK GEORGE	COOPER ESTABLISH	259-C	330	.	.	2	300	200	500	300
0021	D-2	ZIMMERMAN PETER	BLACKSMITH FORGE	896	300	.	.	2	300	261	1200	939
0021	D-2	ZIMMERMAN REBECCA	MILLINERY/DRESSM	244/243	50	.	.	2	55	700	1100	400
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Table A-8: St Catharines: Firms by Name of Proprietor, 1871

ST CATHARINES: ALL FIRMS BY NAME OF PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	B-4	ABBOTT	GAS WORKS	574	80000			6	3000	5500	15000	9500
0021	B-2	ALLAN	SEWING MACHINE F	315-S	10000	STEAM	3	12	6000	3000	20000	17000
0021	B-2	ARRONS	CABINETMAKER	261	1200			4	1200	1800	3600	1800
0021	B-1	BALD	MILLINERY/MANTLE	244/249-M				8	1200	15000	20000	5000
0021	B-2	BALL	CARPENTER SHOP	421-C	150			6	2808	7626	10771	3145
0021	B-1	BARON	CARPENTER WORK	421-C	500			9	3000	3000	8000	5000
0021	B-2	BARR	MARBLE CUTTING S	353	100			2	1000	2000	3000	1000
0021	B-1	BATES	DRESSMAKER/MILLI	244/249-M				8	1600	10000	15000	5000
0021	B-1	BEATTIE	HAT CLEANING/REP	249-H				2			100	
0021	B-1	BECKETT	BOOT/SHOEMAKING	174				3	600	500	1500	1000
0021	B-2	BEGG	CLOTH FACTORY	182	3500	WATER	10	9	1500	2000	4100	2100
0021	B-1	BEGY	CHEMIST/DRUGGIST	374				4	450	600	2000	1400
0021	B-4	BELTON	COOPERING EST	259-C	1000			7	2000	2500	5500	3000
0021	B-2	BENFIELD	PAINT SHOP	421-D	1500			9	2500	1700	4500	2800
0021	B-1	BISHOPRICK	BRICK FACTORY	351-B		HORSE	1	8	300	100	500	400
0021	B-1	BOLES	BRICK FACTORY	351-B	250	HORSE	2	20	3000	200	3500	3300
0021	B-4	BOYLE	SOAP/CANDLE FACT	376/378-P	5000			5	1400	16800	19530	2730
0021	B-1	BRENNAN	TAILOR/CLOTHING	242/243	800			45	14000	20000	37500	17500
0021	B-2	BROCK	CHEMIST/DRUGGIST	374				1	100	500	700	200
0021	B-1	BURNETT	BOOK BINDERY	287-B	700			3	1000	370	2000	1630
0021	B-4	BURR	WATCHMAKER	392	500			2		75	600	525
0021	B-3	BURROW/CHATFIELD	TANNERY	172				1	250	1300	2500	1200
0021	B-1	CAIN	MILLINER	249-M/243	1000			18	18	10000	20000	10000
0021	B-1	CAIRNS	BAKERY	107	100			2	300	4700	6000	1300
0021	B-1	CAMPBELL	BOOT/SHOE STORE	174	100			6	2000	3000	9000	6000
0021	B-3	CARNALIS	SHOE SHOP	174				2	400	1100	3600	2500
0021	B-1	CARLISLE	CLOTHING STORE	242	150			8	3000	5000	12000	7000
0021	B-2	CHANDLER	MILLINERY STORE	249-M/245				10	800	1000	2500	1500
0021	B-2	CLARK	FOUNDRY/MACHINE	315	3000	STEAM	15	3	1200	600	2000	1400
0021	B-3	CLARK	SMUT MILLS	311				2	400	200	750	550
0021	B-1	CLARK	DRESSMAKING	244				2			200	
0021	B-3	CLENCH	MILLINERY/DRESSE	249-M/244				2	100	300	450	150
0021	B-2	CLONEY	PHOTOGRAPHIC STU	893	1000			3	858	1500	4000	2500
0021	B-4	COLLIER	POTASH FACTORY	378-P	500			5	1500	1600	5400	3800
0021	B-3	CONGLE	AGRC IMPLEMENT F	311	10000	STEAM	15	20	7200	7200	20000	12800
0021	B-1	CONNOR	TAILOR/CLOTHIER	242	200			8	1500	3000	6000	3000
0021	B-2	COOK	SHOE SHOP	174	200			5	2000	1500	4000	2500
0021	B-1	COUPER &	DRESSMAKING	244				6	200	2000	3000	1000
0021	B-1	CRAIG	TAILOR/CLOTHIER	242				15	3500	14000	21000	7000
0021	B-1	CUTHBERT	PHOTOGRAPHIC ROO	893	500			2		400	1000	600
0021	B-1	DACK	BOOKBINDING	287-B	500			3	700	300	1000	700
0021	B-2	DELL	CONFECTIONER SHO	108-C	2000			3	800	2913	4139	1226
0021	B-1	DILLINGHAM	ENGRAVER/JEWELER	392				1		400	900	500
0021	B-2	DOLSON	CABINET/TURNING	259-W				1		500	2500	2000
0021	B-2	DOUGAN	SHOE SHOP	174				1	250	125	500	375
0021	B-3	DOUGLAS &	MRS ANN	254				40	13000	14600	29000	14400
0021	B-2	DRAY	PLANING MILL	242	6000	STEAM	15	25	10000	10000	25000	15000
0021	B-1	ELMSLIE	CARPENTER/BUILD	421-C	3000			4	2000	1000	3000	2000
0021	B-1	EDMOND	WATCHMAKER/JEWEL	695/392				1		200	600	400
0021	B-1		CABINETMAKING	261	1000			3	600	5000	8000	3000
0021	B-1		BAKERY	107								



## ST CATHARINES: ALL FIRMS BY NAME OF PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	B-2	FISH	LYMAN W	174	150			5	1200	1500	4500	3000
0021	B-1	FITZGERALD JAMES	PUBLISHING/PRINT	289	1000			3	600	830	2000	1170
0021	B-1	FOWLER JAMES B	WATCHMAKER/REPAI	695	150			2	800	200	1200	1000
0021	B-4	GADSBY ELI	MARBLE FACTORY	353	2000			5	2800	5000	11000	6000
0021	B-1	GIBBS MRS WM	DRESS/MANTLE MAK	244				1	400	400	1000	600
0021	B-4	GIBSON GEORGE	BLACKSMITH SHOP	896	400			2	900	250	2000	1750
0021	B-4	GILLESPIE & SIMPS	SAW MILL	251	5000	WATER	30	16	4000	19000	25000	6000
0021	B-1	GILLESPIE J B	MILLINERY	249-M/244	100			3	750	5000	7000	2000
0021	B-1	GORDON CARRIE	DRESSMAKING	244				1		600	700	100
0021	B-1	GRANT WM & CO	PUBLISHING/PRINT	289	7000	STEAM	4	9	3600	3100	12000	8900
0021	B-1	GREENWOOD W W	CHEMIST/DRUGGIST	374	1000			4	600	500	2000	1500
0021	B-1	GREGORY ADELINE	MILLINERY	249-M				2	100	1000	1500	500
0021	B-2	GROBB & HARLEY	CABINETMAKER	261	3000	WATER		7	2500	3200	8000	4800
0021	B-2	GWINNER JOHN	TAILOR SHOP	242				6	1000	2000	4000	2000
0021	B-1	HARRIS & BERSTON	CIGAR MANUFACTOR	153	150				3600	1200	10000	8800
0021	B-1	HEALEY TIMOTHY	BOOT/SHOEMAKING	174	350			12	7000	8000	18000	10000
0021	B-4	HELLEMS & JACKSON	PLANING MILL	251	7000	STEAM	20	17	4000	10000	18000	8000
0021	B-2	HIGMAN WILLIAM	CABINET SHOP	261	300			3	1000	500	1725	1225
0021	B-1	HOLMES & GREENWO	CARRIAGE/WAGON E	329	1000			15	3323	2000	10000	8000
0021	B-2	HOSTETTER HERMAN	GRIST MILL	105	7000			2	624	21825	25447	3622
0021	B-2	HOWSE JOHN H	TIN/COPPERSMITH	304-T	5000			6	2000	3000	6000	3000
0021	B-2	JACKSON JAS W	WATCHMAKER SHOP	695	200			1	600		600	
0021	B-2	JACKSON JULIA	DRESSMAKER SHOP	244				3	200	1000	1500	500
0021	B-2	JANE JOHN H	CARPENTER SHOP	259/256	200			2	550	410	1100	690
0021	B-3	KEEFER FERDINA	PORK CURING EST	101-P	1000			1	160	2000	2790	790
0021	B-2	KIRBY JAMES	CABINET FACTORY	261				5	1950	2300	4250	1950
0021	B-3	LANE WILLIAM	DRUG SHOP	374	700			1		500	900	400
0021	B-2	LAUDER MISS JESSI	DRESSMAKER SHOP	244	70			7	240	3978	5226	1248
0021	B-1	LEAVENWORTH E S	PRINTING	286	1400			2	300	600	2000	1400
0021	B-1	LEPPER JOHN &	TAILOR/CLOTHING	242	200			22	5000	10000	20000	10000
0021	B-1	LINDSAY N A	BOOT/SHOE STORE	174	500			9	2500	2200	6000	3800
0021	B-1	MADDEN MRS D D	HAIR ESTABLISHME	399-W				2		200	300	100
0021	B-1	MAHONEY THOS	TAILOR ESTABLISH	242	100			4	700	1200	3500	2300
0021	B-1	MAITLAND G F	PHOTOGRAPHIC ROO	893	1800			2	150	400	2000	1600
0021	B-4	MANNE ABRAHAM	BLACKSMITH SHOP	896	400			2	800	400	2000	1600
0021	B-3	MAXWELL ALEXAND	BAKERY	107	1000			5	700	6500	8000	1500
0021	B-2	MCARDLE EDWARD	BAKER SHOP	107	2000			5	1976	12000	15000	3000
0021	B-1	MCCARTHY KATE	DRESSMAKING	244				5		400	1000	600
0021	B-2	MCCARTHY & BROWN	PORK CURING EST	101-P	500			4	1000	7000	10000	3000
0021	B-1	MCCARTY E	HORSESHOEING	896	350			2	365	150	1200	1050
0021	B-3	MCCORMACK MATHIA	CARPENTER/JOINER	254	1100			9	3000	1200	5400	4200
0021	B-1	MCCOURT JAMES	SAIL MAKING	187				4	2000	6000	12000	6000
0021	B-3	MCELROY NEIL	WAGON FACTORY	329	2000			3	1000	555	2650	2095
0021	B-3	MCGLASHAN ALEXAND	TIN SHOP	304-T				1		245	500	255
0021	B-2	MCINTYRE & SON	CABINETS/UNDERT	261/258	1000	WATER		17	5200	1500	12000	10500
0021	B-2	MCKELVEY JAMES	TINSMITH	304-T	150			5	800	1000	2000	1000
0021	B-4	MCKINLEY R & CO	CARRIAGE WOODWOR	329-P	26000	STEAM	40	60	21000	30000	85000	55000
0021	B-3	MCLAUGHLIN JAMES	BOOT/SHOE SHOP	174	300			2	300	800	1300	500
0021	B-2	MCLEAN DAVID C	TIN/COPPER STORE	304-T				1	300	300	800	500
0021	B-2	MCLEAN J & J	PORK CURING	101-P	200			2	130	2000	2555	555
0021	B-1	MCNAMARA MRS R	MILLINERY	249-M				4	200	2000	2500	500



## ST CATHARINES: ALL FIRMS BY NAME OF PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	B-3	MCNEIL	JAMES	421-C	100			12	3900	5366	10000	4634
0021	B-2	MEADOWS	WILLIAM	109-S	400			4	780	3170	6180	3010
0021	B-2	MESLER &	PLUMSTE	256/259	1100	STEAM	8	4	1000	1360	3552	2192
0021	B-2	MILLS	A & SON	315-P	2000	WATER	4	3	1200	800	2700	1900
0021	B-1	MILLS	JAMES J	374				3	500	500	1000	500
0021	B-1	MOYER	P E W	289	5000			11	2500	1500	4500	3000
0021	B-4	NEELON	SYLVEST	105	25000	WATER	150	20	8000	385000	447120	62120
0021	B-4	NEELON	SYLVEST	259-C	5000			25	6000	18200	26250	8050
0021	B-1	NESBET	CHRISTI	244				4	500	5000	6500	1500
0021	B-1	NORRIS	JAMES	105	45000	WATER	120	25	10000	575000	640000	65000
0021	B-1	NORRIS	JAMES	259-C	6000			25	9000	16000	28000	12000
0021	B-1	NORRIS & CO	COOPERAGE	105	10000	WATER	50	9	2000	140600	150000	9400
0021	B-1	O'DONNELL	THOS	421-D	75			3	500	500	1200	700
0021	B-2	OILLE	G & J	315	18000	STEAM	12	50	16000	6000	30000	24000
0021	B-2	ORR	JAMES	421-D				14	1600	1000	2600	1600
0021	B-1	ORR THOMAS	SADDLERY/TRUNKS	179-S/179-T	200			6	1200	2500	6000	3500
0021	B-2	PALMER	JOSEPH	309-S	80			1	170	25	200	175
0021	B-1	PAWLING	WM	179-T/179-S	100			5	500	1800	2500	700
0021	B-1	PRESTON	VIOLET	244				2	8	400	600	200
0021	B-1	PURVES	ADAM	244/249-M	100			5	600	5000	7000	2000
0021	B-2	RATCLIFFE & PARNE	TINWARE MANUFACT	304-T	250			4	2500	1000	5000	4000
0021	B-2	REA &	BOYLE	421-D				6	1700	1100	2800	1700
0021	B-1	REID	JOHN	242	50			6	600	2000	3000	1000
0021	B-1	RIDDELL	WM E	421-S				9	2500	4000	8000	4000
0021	B-1	RILEY	CHARLOT	244				1			300	
0021	B-1	ROBERTSON	ELIZABE	244				3			500	
0021	B-1	ROSS	GEORGE	327/896	1000			3	600	500	3000	2500
0021	B-2	SCHMIDT	SIMON C	261	1560			4	1100	1380	1925	545
0021	B-2	SCHRAM	MARGARE	244				1		70	100	30
0021	B-1	SEYMOUR	JAMES	289	2000			5	1500	1000	3000	2000
0021	B-2	SHEA	LAUREN	107	500			2	1000	3378	5000	1622
0021	B-1	SHICKLUNA	LEWIS	327	20000	WATER	50	82	25000	15000	48000	33000
0021	B-1	SKINNER	MRS	244				4	650	2080	2860	780
0021	B-2	SMITH	GEORGE	329	8000			21	6240	6550	15000	8450
0021	B-2	SMITH	R H	306-S	25000	STEAM	18	31	18000	35000	55000	20000
0021	B-1	SPARROW	GEORGE	421-S/421-L	50			2	400	800	1800	1000
0021	B-1	ST JOHN	ELIZA	244				4		1500	2000	500
0021	B-2	STOCKWELL	EDWARD	189-D	80			2	1000	80	1080	1000
0021	B-1	STRUTHERS	ROBERT	242/244	500			6	1500	3500	5000	1500
0021	B-1	SUTHERLAND	MAGGIE	249-M/244				6	600	4000	6000	2000
0021	B-3	SWITZER	EDWIN	421-C	100	HORSE	1	9	3000	3840	7500	3660
0021	B-1	SWORD	ROBERT	254	150	WATER	2	4	900	2000	3500	1500
0021	B-1	TAIT	JAMES D	246	500			31	5500	9260	20000	10740
0021	B-1	TAYLOR & BATE	BREWERY	109-B	10000	STEAM	8	12	4380	12500	22000	9500
0021	B-3	THOMPSON & NESS	CARPENTER SHOP	254				6	1800	400	3000	2600
0021	B-1	TUTTLE DATE & ROD	AGRC HAND TOOLS	306	75000	WATER	350	120	55000	36000	137000	101000
0021	B-2	WALES	GEORGE	896	500			6	1900	1000	3700	2700
0021	B-2	WALKER	MRS HEN	244	50			2	480	750	1400	650
0021	B-1	WELCH	ROBERT	242	75			1		1000	1500	500
0021	B-4	WELLAND	RAILWAY C	326		STEAM	12	14	5500	1500	7200	5700
0021	B-3	WILSON	GEORGE	254	5000			10	4600	1800	7600	5800

## Merritton: Firms by Name of Proprietor, 1871

ST CATHARINES: ALL FIRMS BY NAME OF PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	B-2	WINGROVE	JAMES	101-P	200	STEAM	8	3	800	2000	3600	1600
0021	B-4	WOOD	JAMES	172	2000	STEAM	8	5	2000	3000	9000	6000
0021	B-1	WOODS	GEORGE	179-S/179-T	400			8	2500	4500	11000	6500
0021	B-1	YALE & CO	HARNESSES/SADDLE	294/315-E	18000	STEAM	10	25	8000	10000	25000	15000
0021	B-1	YALE & CO	FOUNDRY	304-T	1000			8	3000	4000	8000	4000
0021	B-1	YALE & CO	TINSMITH									
=====												
					506340		958	1408	425360	1718961	2577000	856339
=====												

MERRITTON: ALL FIRMS BY PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	A 3	DELANEY	BLACKSMITH SHOP	896	150			2	486	250	900	650
0021	A-3	GORDON & MACKAY	LYBSTER COTTON M	181	150000	WATER	250	200	36000	66000	150000	84000
0021	A-3	PATTERSON H & CO	SPOKE/BENDING FC	329-P	6000	W/S	20	20	7000	15000	50000	35000
0021	A 3	PHELPS N & O J	SAW MILL	251	6000	WATER	50	10	2000	4200	7800	3000
0021	A 3	PHELPS & PHELPS	BLACKSMITH SHOP	896	150			3	600	600	1440	840
0021	A 3	RIORDAN JOHN	PAPER MILLS	271	156000	WATER	200	100	30000	70000	160000	90000
0021	A-3	SIMPSON THOMAS	DOMINION FLOUR M	105		WATER	30	2	600	10830	14257	3427
0021	A 3	VON POEHNHOF A R	OIL REFINERY	365	25000	STEAM	20	15	8000	40000	135000	95000
0021	A 3	WAIT WILLIAM	COTTON MILLS	181	30000	WATER	120	75	11000	55000	75000	20000
0021	A 3	WINSLOW JOHN	BAKERY	107	200			2	450	1530	2520	990
=====												
					373500		690	429	96136	264010	590917	332907

NIAGARA TOWN: ALL ESTABLISHMENTS BY PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0020	C	CATHLINE	PHILLIP	259	200		.	2	400	300	600	300
0020	C	CLEMENT	JOHN M	304-T	500		.	1	400	480	750	270
0020	C	DALEY	THOMAS	259	400		.	0	130	150	1000	850
0020	C	DAVIDSON	JOHN	421-C	1000	HORSE	2	2	500	600	1500	900
0020	C	HEWITT	WILLIAM	174	200		.	7	1300	2700	4000	1300
0020	C	HOSKINS	NELSON	399-B	50		.	2	250	300	600	300
0020	C	LYNCH	PATRICK	179-S	50		.	2	75	300	600	300
0020	C	MACKIN	EDWARD	896	150		.	3	160	175	800	625
0020	C	MONRO	THOMAS	896	100		.	1	150	160	800	640
0020	C	PATTERSON	EDWARD	107	200		.	2	300	3276	4476	1200
0020	B	PLATT	WILLARD	329	600		.	4	400	105	1800	1695
0020	C	ROWLAND	THOMAS	242	200		.	9	1000	4000	5000	1000
0020	C	ROWLAND	THOMAS	244/249-M	25		.	1	300	600	950	350
0020	B	SHERWOOD	STEPHEN	896	100		.	1	26	150	950	800
0020	B	SWINTEN	DAVID	259	400	STEAM	14	5	2700	1350	4600	3250
0020	B	THORNTON	JOHN	421-S	.		.	2	1260	250	800	550
										=====	=====	=====
										4175	14896	14330

PORT DALHOUSIE: ALL ESTABLISHMENTS BY PROPRIETOR, 1871

CDID	CED	PROPRIOR	TYPEEST	SIC	FIXCAP	TYPEPOW	FORCE	TOTEMP	WAGES	SUMRAWC	SUMPROC	VADD
0021	C	ABBY	ALEXAND	328	.		.	3	650	300	950	650
0021	C	ANDERSON	HARRIET	244	.		.	2	90	300	600	300
0021	C	ANDREWS	S & SON	327	12000	WATER	20	42	18000	1000	30000	29000
0021	C	BLACK	JOHN	259-C	400		.	1	260	450	660	210
0021	C	BOWMAN	SUSAN	244	40		.	2	70	200	275	75
0021	C	DAISEY	JOHN	179-S	300		.	2	600	300	900	600
0021	C	DENTON	JOHN	242	200		.	5	600	2200	3500	1300
0021	C	GRIFFIN	EDWARD	309	75		.	2	450	150	700	550
0021	C	HENRY	ROBERT	309	500		.	2	600	300	1500	1200
0021	C	HOUSE	TIN SHOP	304-T	300		.	1	.	50	800	750
0021	C	JOHNSON	JOSEPH	174	100		.	4	960	1200	3000	1800
0021	C	LAWRIE	JOHN	105	6000	WATER	20	5	1380	33000	40000	7000
0021	C	MCCALL	ELLEN	244	50		.	1	.	30	250	.
0021	C	MCPHIE	ARCHIE	328	.		.	1	.	30	240	210
0021	C	MUIR ALEX & BROS	BOAT BUILDING ES	327	9000		.	60	22960	12000	39000	27000
0021	C	PHILLAMORE	ELLEN	244	40		.	3	70	150	250	100
0021	C	ROBESON	DAVID	187	.		.	2	1000	4000	6000	2000
0021	C	ROSE	SUSAN	243	60		.	1	50	.	50	.
0021	C	RUDMAN	THOMAS	327-M	150		.	0	.	400	900	500
0021	C	WOODALL	JONATHA	174	600		.	4	1000	1600	3500	1900
										=====	=====	=====
										29815	133075	75145



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